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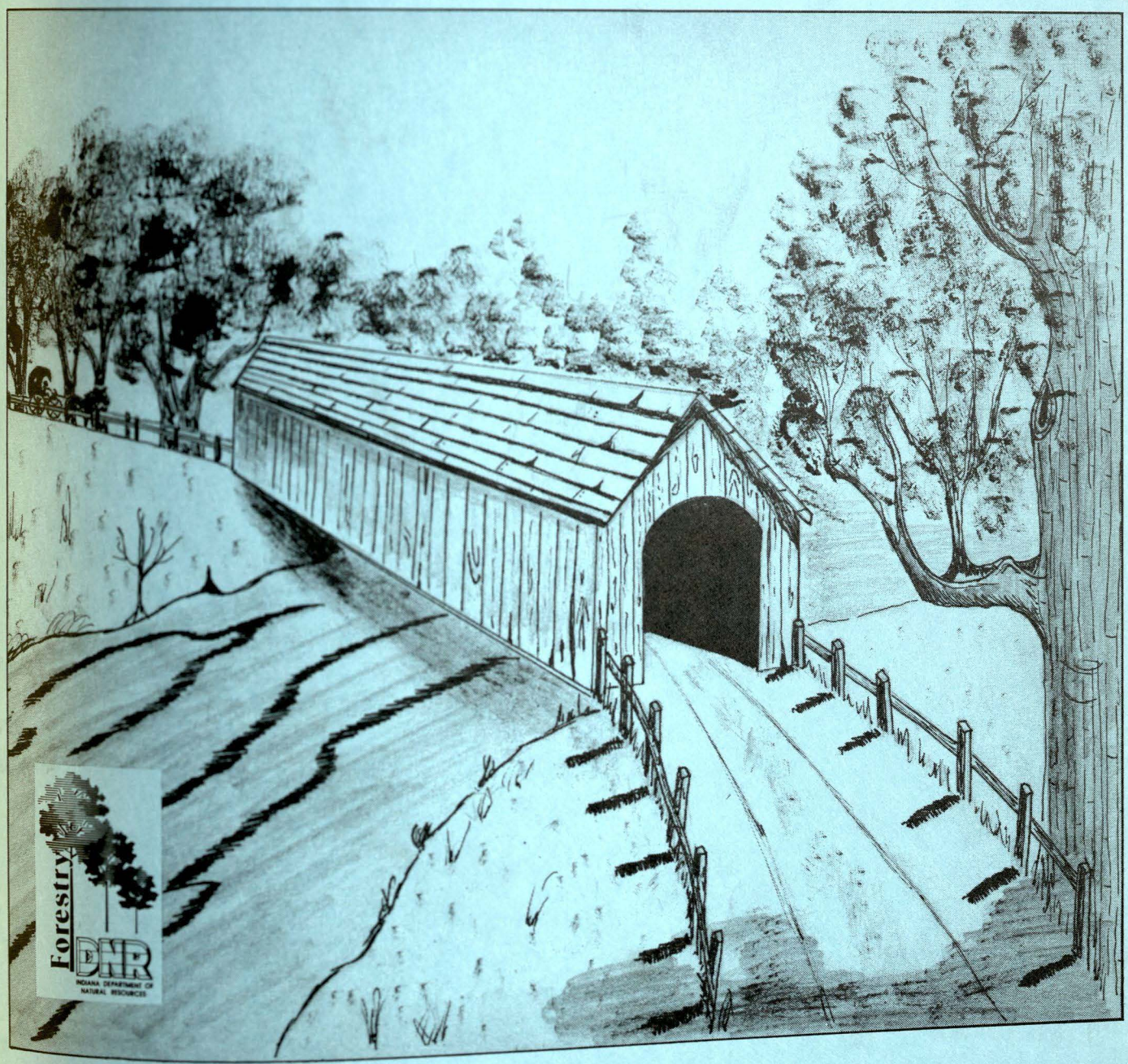
# Indiana Forest Statistics, 1986

W. Brad Smith and Mark F. Golitz



*Forest Inventory and Analysis local artist series No. 1 "Lin Montgomery, Brownstown, Indiana"*

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**1992 Folwell Avenue**
**St. Paul, Minnesota 55108**
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This report includes the most commonly used Forest Inventory and Analysis statistics. However, additional forest resource data can be provided to interested users. Persons requesting additional information that can be provided from the raw inventory data are expected to pay the retrieval costs. These costs range from less than $100 for a relatively simple request to $2,000 for a complex retrieval involving the services of a Forest Inventory and Analysis computer programmer. Requests will be filled so as to minimize the impact on the Forest Inventory and Analysis Work Unit.

Requests for unpublished information may be directed to:

Project Leader
Forest Inventory and Analysis Project
North Central Forest Experiment Station
1992 Folwell Avenue
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Phone: (612) 649-5140

Area served: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, South Dakota, Wisconsin.

Requests for unpublished information from the Indiana inventory may also be directed to:

State Forester
Indiana Department of Natural Resources
Division of Forestry
613 State Office Building
Indianapolis, Indiana 46204

# FOREWORD

Forest Inventory and Analysis (FIA) is a continuing endeavor as mandated by the Renewable Forest and Rangeland Resources Planning Act of 1974. Prior inventories were mandated by the McSweeney-McNary Forest Research Act of 1928. The objective of FIA is to periodically inventory the Nation's forest land to determine its extent, condition, and volume of timber, growth, and depletions. Up-to-date resource information is essential to frame intelligent forest policies and programs. USDA Forest Service regional experiment stations are responsible for conducting these inventories and publishing summary reports for individual States. The North Central Forest Experiment Station is responsible for forest resource evaluation in Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, South Dakota, and Wisconsin.

Fieldwork for the Indiana Statewide forest inventory was begun in July 1985 and completed in December 1986. Reports on the two previous inventories of Indiana's timber resource are dated 1950 and 1967.

More accurate survey information was obtained during the 1986 survey than otherwise would have been feasible because of intensified field sampling. Such sampling was made possible by additional funding provided by the Indiana State Legislature through the Division of Forestry, Indiana Department of Natural Resources. The Department also surveyed primary wood-using plants in the State. Data from this survey were used to help estimate the quantity of timber products harvested in the State. Indiana Department of Natural Resources personnel have also assisted in training field personnel, analyzing information obtained from the survey, and preparing this report.

Aerial photos used in the Indiana Forest Inventory were furnished by the Hoosier National Forest and the USDA Agricultural Stabilization and Conservation Service.

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# INDIANA FOREST STATISTICS, 1986

**W. Brad Smith,**
*and* **Mark F. Golitz**

## HIGHLIGHTS

### Forest Area

- Forest land was 4.4 million acres (19.3 percent of the State's total land area) in 1986.
- Timberland (formerly called commercial forest land) increased 10 percent between 1967 and 1986, from 3,895,800 to 4,295,800 acres. The largest increase occurred in the Upland Flats Unit primarily due to reversion of wooded pasture and marginal farmland.
- Reserved timberland totaled 143,400 acres in 1986, 3.2 percent of the State's forest land. There were only 38,500 acres of reserved timberland in the State in 1967.
- Timberland represented 18.7 percent of the State's total land area (fig. 1).
- Perry County contained the largest area of timberland in 1986 (152,500 acres), as it did in 1967 (142,800 acres).
- Farmers and miscellaneous private individuals owned 3,335,400 acres—78 percent of the timberland. A new definition of farm ownership shifted much of what was previously in the farmer category to the miscellaneous private category (fig. 2).
- The predominant forest type, oak-hickory, accounted for 33 percent (1,436,700 acres) of the total timberland in 1986, down from 61 percent of the total in 1966.

The area of the oak-hickory type is declining for several reasons: Many mature oak-hickory stands where no cutting has taken place are succeeding into the maple-beech and cherry-ash-poplar types. In many oak-hickory stands where cutting has taken place, soft maple and yellow-poplar are the predominant species to regenerate, producing a different forest type.

- The area of sawtimber stands increased 36 percent between inventories, while the area of poletimber stands decreased 22 percent (fig. 3).

### Volume

- The volume of growing stock on timberland was 5.2 billion cubic feet in 1986, up 43 percent from 1967[1].
- Sawtimber volume on timberland totaled 19.2 billion board feet[2] in 1986, up 54 percent from 1967[3].
- Hardwoods accounted for more than 96 percent of both the growing-stock volume (5.0 billion cubic feet) and the sawtimber volume (18.6 billion board feet) on the State's timberland.
- The oak species account for 36 percent (6.9 billion board feet) of the total sawtimber volume.
- Growing-stock volume of the oaks and hickories increased 12 percent between 1967 and 1986, while all other species increased 77 percent over the same period. The harvesting pressure on oak and hickory is apparent, as these species' total share of inventory declined from 53 to 41 percent of growing stock between 1967 and 1986. This decrease in oak as a percentage of the total volume is a major factor in the decline in the area of the oak-hickory forest type (fig. 4).
- Yellow-poplar growing-stock volume increased 130 percent, from 188 million cubic feet in 1967 to 433 million cubic feet in 1986. The growing-stock volume of yellow-poplar was 8 percent of the total in 1986, compared to 5 percent of the total in 1967.

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[1]*Because of changes in volume equations, 1967 growing-stock volumes have been adjusted from those published after the 1967 survey to conform to 1986 volumes.*

[2]*International ¼-inch rule.*

[3]*1967 sawtimber volume figues have been adjusted from those published after the 1967 survey to conform to 1986 data because of changes in Survey procedures and volume equations.*

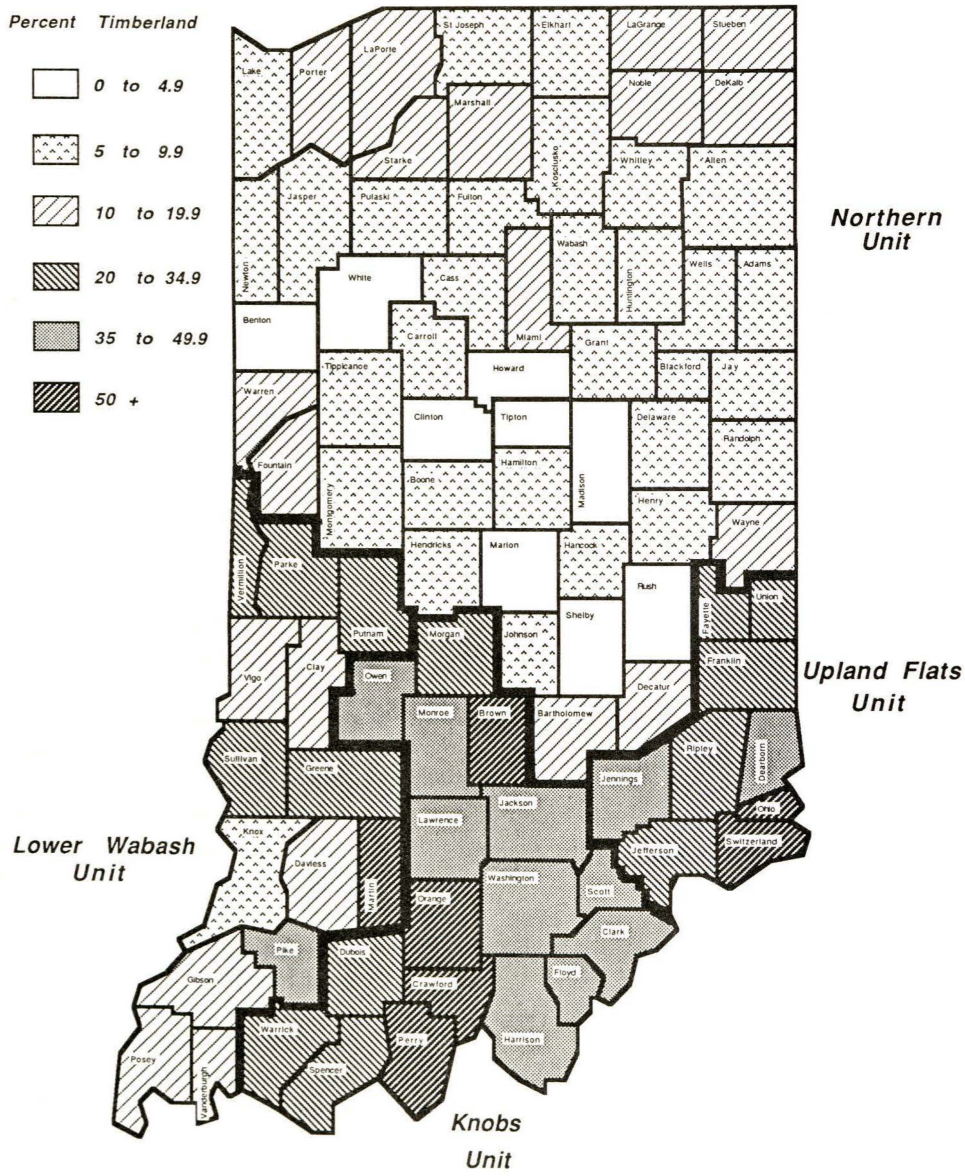


Figure 1.—*Timberland as a percent of land area by county, Indiana, 1986.*

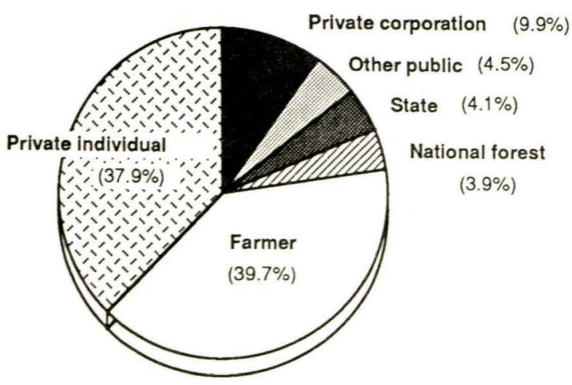


Figure 2.—*Area of timberland by owner class, 1986.*

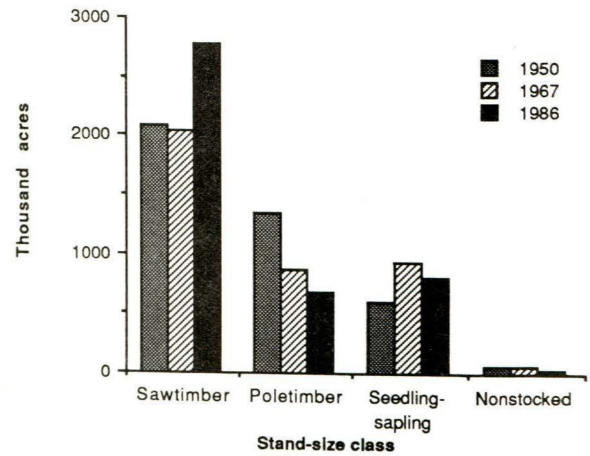


Figure 3.—*Area of timberland by stand-size class, 1950, 1967, and 1986.*

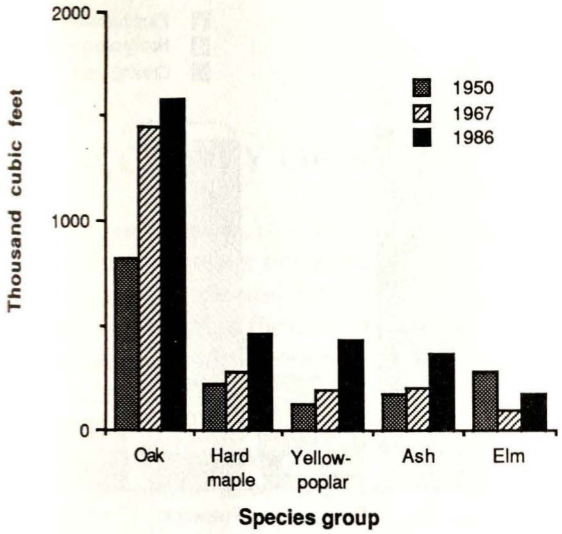


Figure 4.—*Trend in growing-stock volume by selected species group.*

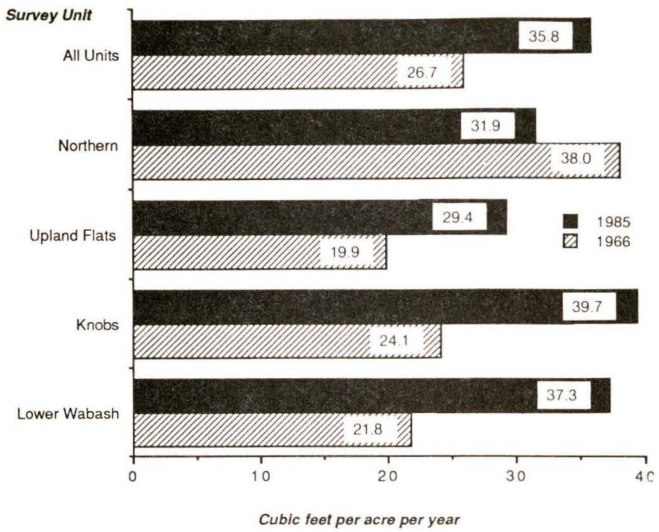


Figure 5.—*Net growing-stock growth per acre, 1966 and 1985.*

- Growing-stock volume on timberland averaged 1,215 cubic feet per acre in 1986, compared to 938 cubic feet per acre in 1967, an increase of 30 percent.
- Sawtimber volume per acre increased 39 percent, from 3,212 board feet in 1967 to 4,475 board feet in 1986.
- The volume in live cull trees is 811 million cubic feet; salvable dead tree volume is 82 million cubic feet.
- Private parties (all non-public owners) own 85 percent (4.5 billion cubic feet) of the growing-stock volume.
- The oak-hickory forest type (which includes many non-oak species) contains 37 percent of the sawtimber volume (7.1 billion board feet).

## Stand Conditions

- Net annual growth of growing-stock trees on timberland was 154 million cubic feet, 2.9 percent of inventory in 1985. In 1966, net annual growth of growing-stock trees was 104 million cubic feet, 2.8 percent of inventory.
- Net annual growth of growing-stock trees on timberland averaged 35.8 cubic feet per acre in 1985, up 35 percent from 1966 (26.6 cubic feet per acre) (fig. 5).
- Annual mortality of growing stock amounted to 37.5 million cubic feet, 0.7 percent of inventory in 1985.
- Net annual growth of sawtimber on timberland was 726 million board feet, 3.8 percent of inventory in 1985. In 1966, net annual growth of sawtimber was 270 million board feet, 2.2 percent of inventory.
- Net annual growth of sawtimber trees on timberland averaged 169 board feet per acre in 1985, nearly three times the rate in 1966 (69 board feet per acre). This dramatic increase in sawtimber growth was primarily due to ingrowth, the volume of trees that had not yet reached the merchantable diameter limit (9 inches for softwoods, 11 inches for hardwoods) in 1967 but had by 1986. This phenomenon is typical of a rapidly maturing second-growth forest.
- Annual mortality of sawtimber amounted to 101 million board feet, 0.5 percent of inventory in 1985.

## Timber Use

- Timber removals from growing stock totaled 93 million cubic feet in 1985 (1.8 percent of inventory and 65 percent of growth).
- Sixty percent of the growing-stock removals were for saw logs (fig. 6).

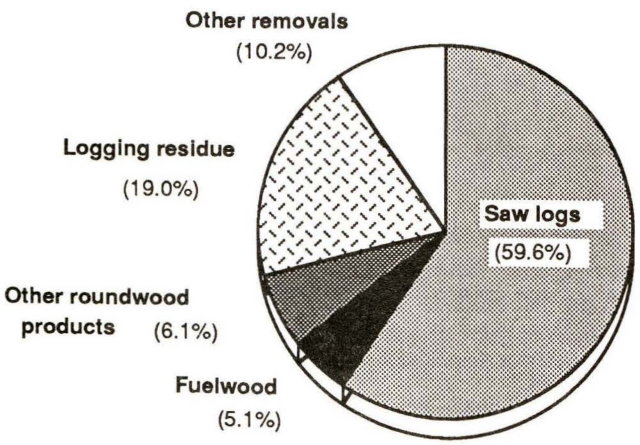


Figure 6.—*Timber removals from growing stock, 1985.*

- Sawtimber removals totaled 462 million board feet in 1985 (2.4 percent of inventory and 63 percent of growth).
- Oak and hickory growing-stock removals (49 million cubic feet) slightly exceed growth (48 million cubic feet); but removals in all other species (44 million cubic feet) were less than half of growth (94 million cubic feet) (fig. 7).

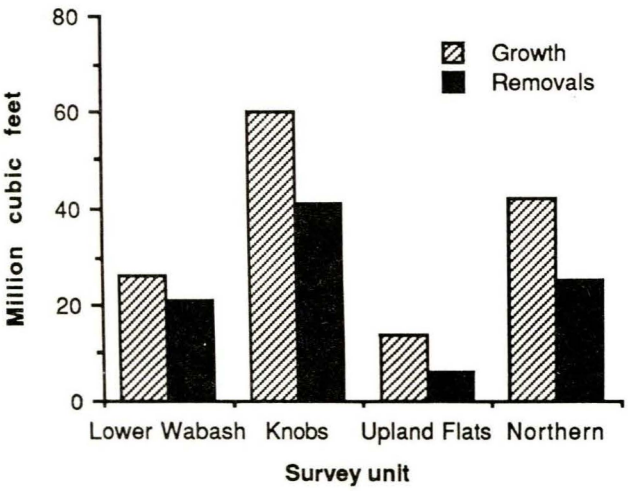


Figure 7.—*Growth and removals on timberland, 1985.*

- The oaks accounted for 46 percent (212 million board feet) of the sawtimber removals in 1985 (3.1 percent of oak inventory and 105 percent of oak growth).
- Fuelwood production topped 693 thousand cords in 1984. However, only 10 percent came from growing stock; the rest came from rough, rotten, and dead trees (22 percent), plant residues (27 percent), and other sources (41 percent), primarily tops and limbs of harvested trees and trees from nonforest land (fig. 8).

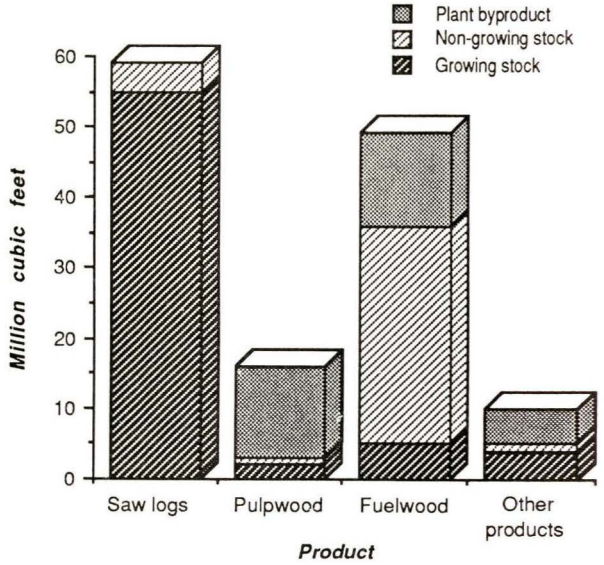


Figure 8.—*Timber products output by source of material, 1984.*

## Biomass

- Live tree biomass (trees greater than 1 inch in d.b.h.) totaled 328 million green tons (an average of 76.3 green tons per acre) in 1986.
- Seventy-three percent (241 million green tons) of all live tree biomass was in growing-stock trees 5 inches d.b.h. and larger (fig. 9).

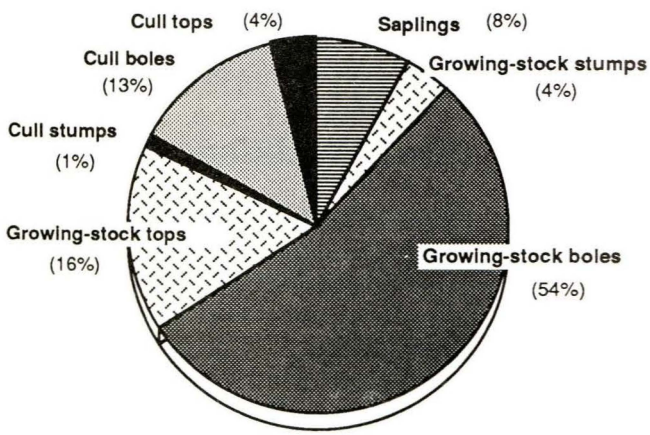


Figure 9.—*Components of timberland biomass.*

# APPENDIX

## ACCURACY OF SURVEY

Forest Inventory and Analysis information is based on a sampling procedure designed to provide reliable statistics at the State and Survey Unit levels. Consequently, the reported figures are estimates only. A measure of reliability of these figures is given by sampling errors. These sampling errors mean that the chances are two out of three that if a 100-percent inventory had been taken, using the same methods, the results would have been within the limits indicated.

For example, the estimated growing-stock volume in the State in 1986, 5,217.9 million cubic feet, has a sampling error of +1.57 percent (+81.9 million cubic feet). The growing-stock volume from a 100-percent inventory would be expected to fall between 5,136.0 and 5,299.8 million cubic feet (5,217.9 +81.9), there being a one in three chance that this is not the case.

The following tabulation shows the sampling errors for the 1986 Indiana Forest Inventory:

| Item | State totals | Sampling error |
|---|---|---|
| Growing stock | (Million cubic feet) | (Percent) |
| Volume (1986) | 5,217.9 | 1.57 |
| Growth (1985) | 142.1 | 3.42 |
| Average annual removals (1966-1985) | 72.6 | 5.40 |
| Sawtimber | (Million board feet) | |
| Volume (1986) | 19,224.2 | 1.86 |
| Growth (1985) | 729.1 | 5.47 |
| Average annual removals (1966-1985) | 314.0 | 5.68 |
| Timberland | (Thousand acres) | |
| Area (1986) | 4,295.8 | 1.00 |

As survey data are broken down into sections smaller than Survey Unit totals, the sampling error increases. For example, the sampling error for timberland area in a particular county is higher than that for total timberland area in the Unit. Table 89 shows the sampling errors for Unit and county totals. To use this table for data smaller than county totals use the following formula to compute error estimates:

$$E = \frac{(SE)\sqrt{(\text{Unit total area or volume})}}{\sqrt{(\text{Volume or area smaller than Unit total})}}$$

where: E = sampling error in percent
SE = Unit total error from table 90 for area or volume.

For example, to compute the error on the area of oak hickory type in Jackson County, proceed as follows:

Area of oak-hickory type in Jackson County from table 12 = 50,300 acres

Area of all timberland in the Knobs Unit from table 12 = 1,741,100 acres

Unit total error for area in the Knobs Unit from table 90 = 0.83 percent

Using the formula above:

$$\text{Error} = \frac{(0.83)\sqrt{1{,}741{,}100}}{\sqrt{50{,}300}}$$
$$= 4.88 \text{ percent}$$

## SURVEY PROCEDURES

Two-phase sampling using both new and remeasurement ground plots was used in this inventory.

The major steps in the Indiana Forest Inventory were as follows:

1. Aerial photography (Phase 1)

Aerial photographs of the entire area were obtained from the Hoosier National Forest and USDA Agricultural Stabilization and Conservation Service. Nine-inch square, black and white Panchromatic prints on a scale of 1:40,000 were used throughout the entire State. Approximate date of photography for each county is shown in table 1. For those counties with photos taken prior to 1980, National High Altitude Photography (NHAP) photos were used to verify change information. The NHAP photos were taken between 1981 and 1983.

The locations of the plots used in the 1967 inventory were transferred to these new photographs. Photographs were assembled into township mosaics, and a systematic grid of 121 one-acre points (each point representing approximately 190.4 acres) was overlaid on each township mosaic. Each of these points (both the new systematic grid points and the

Table 1.--Dates of aerial photography by county and Forest Survey Unit, Indiana

| Unit and County | Date | Unit and County | Date |
|---|---|---|---|
| Lower Wabash Unit | | Northern Unit | |
| Clay | 10-80 | Adams | 4-83 |
| Daviess | 9-74 | Allen | 5-81 |
| Gibson | 10-74 | Bartholomew | 11-80 |
| Greene | 10-80 | Benton | 6-83 |
| Knox | 4-78 | Blackford | 9-80 |
| Martin | 9-74 | Boone | 5-72 |
| Parke | 6-71 | Carroll | 11-81 |
| Pike | 9-74 | Cass | 4-82 |
| Posey | 6-80 | Clinton | 5-72 |
| Putnam | 4-78 | Decatur | 10-81 |
| Sullivan | 9-74 | DeKalb | 6-72 |
| Vanderburgh | 6-80 | Delaware | 6-80 |
| Vermillion | 9-72 | Elkhart | 5-81 |
| Vigo | 9-74 | Fountain | 6-83 |
| | | Fulton | 10-80 |
| | | Grant | 6-80 |
| | | Hamilton | 5-82 |
| | | Hancock | 5-80 |
| Knobs Unit | | Hendricks | 4-78 |
| Brown | 10-80 | Henry | 6-80 |
| Clark | 10-81 | Howard | 5-84 |
| Crawford | 11-79 | Huntington | 4-82 |
| Dubois | 11-79 | Jasper | 4-84 |
| Floyd | 6-80 | Jay | 9-80 |
| Harrison | 6-80 | Johnson | 9-72 |
| Jackson | 10-80 | Kosciusko | 7-73 |
| Lawrence | 9-79 | LaGrange | 10-74 |
| Monroe | 10-80 | Lake | 9-73 |
| Morgan | 10-80 | LaPorte | 11-81 |
| Orange | 9-79 | Madison | 6-80 |
| Owen | 10-80 | Marion | 8-71 |
| Perry | 11-79 | Marshall | 7-73 |
| Scott | 10-80 | Miami | 10-80 |
| Spencer | 9-74 | Montgomery | 7-71 |
| Warrick | 6-80 | Newton | 6-82 |
| Washington | 10-80 | Noble | 7-73 |
| | | Porter | 6-82 |
| | | Pulaski | 5-81 |
| | | Randolph | 9-80 |
| | | Rush | 10-81 |
| Upland Flats Unit | | St. Joseph | 10-80 |
| Dearborn | 7-80 | Selby | 6-80 |
| Fayette | 10-81 | Starke | 5-81 |
| Franklin | 10-71 | Stueben | 7-73 |
| Jefferson | 10-80 | Tippecanoe | 6-71 |
| Jennings | 10-81 | Tipton | 6-72 |
| Ohio | 7-80 | Wabash | 6-72 |
| Ripley | 10-81 | Warren | 6-83 |
| Switzerland | 7-80 | Wayne | 10-80 |
| Union | 10-81 | Wells | 6-72 |
| | | White | 4-82 |
| | | Whitley | 6-72 |

old sample plots) was examined by aerial photogrammetrists and classified stereoscopically based on land use. If trees were present, forest type and stand size-density class were recorded. Then all the old sample locations and a sample of the new points were sent to the field for the field crew to verify the photo classification and to take further measurements. A total of 126,629 points (120,949 new and 5,680 old) was examined stereoscopically (table 2).

Table 2.--Aerial photo points classified by photo land class and Forest Survey Unit, Indiana, 1986

| Photo land class | All Units | Forest Survey Unit | | | |
|---|---|---|---|---|---|
| | | Lower Wabash | Knobs | Upland Flats | Northern |
| Timberland | 24,462 | 4,794 | 9,665 | 2,840 | 7,163 |
| Reserved timberland | 830 | 61 | 223 | 176 | 370 |
| Questionable | 645 | 90 | 307 | 73 | 175 |
| Nonforest with trees | 3,842 | 871 | 639 | 454 | 1,878 |
| Nonforest without trees | 95,572 | 13,931 | 11,834 | 5,423 | 64,384 |
| Water | 1,278 | 285 | 265 | 77 | 651 |
| All classes | 126,629 | 20,032 | 22,933 | 9,043 | 74,621 |

## 2. Plot measurements (Phase 2)

Each plot location was visited on the ground by a Forest Service field crew. They classified the plot based on its current land use and recorded various other descriptive information. Table 3 summarizes the results of this step of the inventory.

Table 3.--Number of ground plots by ground land use class, and Forest Survey Unit, Indiana, 1986

| Survey Unit and ground land use class | Old plots remeasured | New plots established | Total ground plots taken |
|---|---|---|---|
| All Units | | | |
| Timberland | 1,059 | 939 | 1,998 |
| Reserved timberland | 27 | 115 | 142 |
| Nonforest with trees | 230 | 228 | 458 |
| Nonforest without trees | 4,308 | 4,416 | 8,724 |
| Water | 61 | 57 | 118 |
| Total | 5,685 | 5,755 | 11,440 |
| Lower Wabash Unit | | | |
| Timberland | 205 | 208 | 413 |
| Reserved timberland | 6 | 12 | 18 |
| Nonforest with trees | 55 | 43 | 98 |
| Nonforest without trees | 600 | 648 | 1,248 |
| Water | 14 | 12 | 26 |
| Total | 880 | 923 | 1,803 |
| Knobs Unit | | | |
| Timberland | 460 | 409 | 869 |
| Reserved timberland | 12 | 45 | 57 |
| Nonforest with trees | 65 | 62 | 127 |
| Nonforest without trees | 503 | 525 | 1,028 |
| Water | 16 | 16 | 32 |
| Total | 1,056 | 1,057 | 2,113 |
| Upland Flats Unit | | | |
| Timberland | 127 | 121 | 248 |
| Reserved timberland | 0 | 37 | 37 |
| Nonforest with trees | 27 | 36 | 63 |
| Nonforest without trees | 219 | 226 | 445 |
| Water | 7 | 2 | 9 |
| Total | 380 | 422 | 802 |
| Northern Unit | | | |
| Timberland | 267 | 201 | 468 |
| Reserved timberland | 9 | 21 | 30 |
| Nonforest with trees | 83 | 87 | 170 |
| Nonforest without trees | 2,986 | 3,017 | 6,003 |
| Water | 24 | 27 | 51 |
| Total | 3,369 | 3,353 | 6,722 |

On those plots classified as timberland, wooded pasture, or windbreak (at least 120 feet wide), a ground plot was established or remeasured. The ground plot consisted of a 10-point cluster covering approximately 1 acre. At each point, trees 5.0 inches or more in d.b.h. were sampled on a 37.5 Basal Area Factor (BAF) variable-radius plot, and trees less than 5.0 inches d.b.h. were sampled on a 1/300-acre fixed-radius plot.

## 3. Area estimates

Area estimates outside the Hoosier National Forest were made using two-phase estimation methods.

In this type of estimation, a preliminary estimate of area by land use is made from the aerial photographs (phase 1) and corrected by the plot measurements (phase 2). A complete description of this estimation method is presented by Loetsch and Haller, 1964[4]. Estimates of area for a particular county are based on the aerial photo points taken in that county, corrected using all the ground plots in the Survey Unit, regardless of the county in which they were taken. This was done because there were not enough ground plots in any one county to accurately correct the aerial photo interpretation in that county. Unit-wide correction rates should be accurate at

[4]*Loetsch, F.; Haller, K. E. 1964. Forest inventory. Volume 1: Statistics of forest inventory and information from aerial photographs. BLV Verlagsgesellschaft Munch Basle Vienna. 436 p.*

the county level because we have made every effort to ensure that the plot interpretation is consistent throughout each Survey Unit.

Area estimates within the Hoosier National Forest were obtained from compartment examination records maintained by the Forest Timber Management Staff. This is an intensive area inventory system in which, over a period of years, each stand in the Hoosier is mapped on aerial photographs and then classified by ground visits.

4. Volume estimates

Estimates of volume per acre are made from the trees measured on the 10-point plots. Estimates of volume per acre were multiplied by the area estimates to obtain estimates of total volume. Net cubic foot volumes are based on equations developed by Smith and Weist 1982[5] for use in Indiana. Board foot International 1/4-inch, board foot Doyle (table 4), and cubic foot volume in saw log (table 5) estimates are developed based on factors derived from full tree measurements taken throughout the Central States (Illinois, Indiana, Iowa, and Missouri) and an equation developed by Wiant and Castenaeda 1977[6]. Biomass estimates are based on equations developed by Smith 1985[7].

Table 4.--Factors to convert net cubic foot volume in growing-stock trees to board feet by diameter class and softwoods and hardwoods

| D.B.H. (inches) | International 1/4-inch rule | | Doyle rule | |
|---|---|---|---|---|
| | Softwoods | Hardwoods | Softwoods | Hardwoods |
| 9.0-10.9 | 5.1587 | -- | 1.8300 | -- |
| 11.0-12.9 | 5.4688 | 4.9076 | 2.6526 | 2.1085 |
| 13.0-14.9 | 5.6519 | 5.1315 | 3.4080 | 2.6800 |
| 15.0-16.9 | 5.7234 | 5.2444 | 3.9749 | 3.1258 |
| 17.0-18.9 | 5.8094 | 5.2718 | 4.5314 | 3.5071 |
| 19.0-20.9 | 5.6641 | 5.1770 | 4.7697 | 3.7644 |
| 21.0-22.9 | 5.6942 | 5.1096 | 4.9565 | 4.0580 |
| 23.0-24.9 | 5.3753 | 4.8778 | 5.1949 | 4.2229 |
| 25.0-26.9 | 5.3753 | 4.8778 | 5.9153 | 4.3566 |
| 27.0-28.9 | 5.3753 | 4.8778 | 5.3148 | 4.4843 |
| 29.0+ | 5.3753 | 4.8778 | 5.8066 | 4.9115 |

Table 5.--Factors to determine saw log volume as a proportion of growing-stock bole volume by diameter class and softwoods and hardwoods

| D.B.H. (inches) | Softwoods | Hardwoods |
|---|---|---|
| 9.0-10.9 | 0.8835 | -- |
| 11.0-12.9 | .9533 | 0.7495 |
| 13.0-14.9 | .9530 | .7905 |
| 15.0-16.9 | .9488 | .8006 |
| 17.0-18.9 | .9424 | .8048 |
| 19.0-20.9 | .9016 | .7809 |
| 21.0-22.9 | .8842 | .7691 |
| 23.0-24.9 | .7918 | .7361 |
| 25.0-26.9 | .7918 | .7361 |
| 27.0-28.9 | .7918 | .7361 |
| 29.0+ | .7918 | .7361 |

5. Growth and mortality estimates

On remeasurement plots, estimates of growth and mortality per acre come from the remeasured diameters of trees and from observation of trees that died between inventories. Growth is reported for 1985, the last year before the inventory, and is based on an assumption of constant basal area growth over the remeasurement period. Mortality is reported for 1985 also, and is based on an assumption of constant volume mortality over the remeasurement period.

On new plots, where trees were not remeasured, estimates of growth and mortality were obtained by using the Central States Stand and Tree Evaluation and Modeling System (STEMS)[8,9] to project the growth and mortality of trees for 1 year. The STEMS growth model was adjusted to meet local conditions, using the data from the remeasured plots and a method developed by Smith 1983[10]. As with volume, total growth and mortality estimates were obtained by multiplying the per acre estimates by area estimates.

[5] *Smith, W. Brad; Weist, Carol A. 1982. A net volume equation for Indiana. Resour. Bull. NC-63. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station. 7 p.*

[6] *Wiant, Harry V., Jr.; Castenaeda, Froylan. 1977. Mesavage and Girard's volume tables formulated. BLM4. Denver, CO: U.S. Department of the Interior, Bureau of Land Management, Denver Service Center: 1-4.*

[7] *Smith, W. Brad. 1985. Factors and equations to estimate forest biomass in the North Central Region. Res. Pap. NC-268. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station. 6 p.*

[8] *Miner, Cynthia L.; Walters, Nancy R. 1984. STEMS: a nontechnical description for foresters. Res. Pap. NC-252. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station. 12 p.*

[9] *Shifley, S. F. 1987. A generalized system of models forecasting central states tree growth. Res. Pap. NC-279. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station. 10 p.*

[10] *Smith, W. Brad. 1983. Adjusting the STEMS regional growth models to improve local predictions. Res. Note NC-297. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station. 5 p.*

6. Average annual removals estimates

Average annual growing-stock and sawtimber removals (1966 to 1985) were estimated only from the remeasurement plots. These estimates are obtained from trees measured in the last survey and cut or otherwise removed from the timberland base. New plots were not used to estimate removals. Because the remeasurement plots made up only half of the total ground plots, average annual removals estimates have greater sampling errors than volume and growth estimates.

7. Timber removals, utilization, and timber product output estimates

Statistics on timber product output during 1984 came from canvassing (with a formal questionnaire) all the known primary wood-using mills that consume Indiana logs and bolts. Indiana Department of Natural Resources (IDNR) foresters personally canvassed all the known Indiana primary mills (except one pulpmill). IDNR utilization and marketing specialists provided estimates based on prior knowledge and contacts for a few mills that did not furnish complete data.

The North Central Forest Experiment Station mailed a formal questionnaire to the only Indiana pulpmill and all known out-of-State mills using Indiana roundwood. Follow-up on nonrespondents was by mail and telephone.

A sample of Illinois households and fuelwood producers provided estimates of fuelwood and post production in Illinois during 1983. Fuelwood and fencepost output in Indiana for 1984 was estimated by extrapolating the study results in Illinois to Indiana.

Wood utilization factors for converting timber products output to removals from growing stock were obtained during a 1984-1985 utilization study in Illinois, a 1971-1972 utilization study in Missouri, a 1966 utilization study in Indiana, and a 1964-1965 utilization study in Michigan.

Because this was a 100-percent sample of all primary wood-using mills, there is no sampling error reported for 1985 removals and timber products. This is not to say that the estimates reported here are totally accurate. Sampling error is a measure of precision, not accuracy, and tells in what range we would expect to obtain an estimate were we to repeat the procedure on a new sample. Because we sampled all mills, we would expect the same results if we repeated the procedure.

# COMPARING INDIANA'S THIRD INVENTORY WITH THE SECOND INVENTORY

Data from new forest inventories are often compared with data from earlier inventories to determine trends in forest resources. However, changes in procedures and definitions between surveys often make it necessary to adjust earlier survey data so that they are comparable to data from the new survey. A consistency check was made for the Indiana inventory to ensure that the changes observed between inventories reflect actual changes in the resource and not changes in definitions or procedures.

## Identifying and Correcting Procedural Changes

Between the 1967 and 1986 inventories of Indiana, some procedural changes were made in the method of deriving annual growth and mortality estimates and determining forest type. Also, different volume equations and forest types were used for the two inventories.

New volume equations were developed for Indiana, and these equations were used to compute the 1986 volumes and also to recompute the 1967 volume. The recomputed 1967 growing-stock volume averaged 4.3 percent greater than that reported in the 1967 report. Volumes for 1967 shown in this report are the recomputed volumes based on new volume equations and observations from the 1967 inventory.

Mortality figures published in the 1967 inventory report were based on field estimates from nonremeasurement plots. Information gathered on remeasurement plots during the current inventory was used to adjust the 1967 mortality figures. This adjustment, together with the new volume equations, also changed the estimate of net growth for the 1967 inventory.

In the 1967 report, fewer forest types were identified than in this report; however, all the types used in this report are subsets of forest types used in the old report. Areas and volumes in the oak-hickory type in 1967 will be in either the oak-hickory, chestnut-scarlet oak, or sassafras-persimmon type in 1986. Areas and volumes in the oak-gum-cypress type in 1967 will be in either the oak-gum or lowland oak type in 1986. Similarly, the 1967 elm-ash-cottonwood type is made up of the elm-ash-soft maple and cottonwood types in 1986; and the 1967 maple-beech-

birch type is made up of the maple-beech and cherry-ash-yellow-poplar types in 1986. We could not classify the 1967 area by the 1985 types, so all comparisons must be made by combining 1986 data to reflect the 1967 types.

## Checking for Consistency

A test was made to ensure that it was possible to move from the adjusted 1967 resource statistics to the 1986 values by means of a computer program for updating and projecting timber volume, growth, and removals. Using the adjusted 1967 volume, growth rates, and removals rates for the period between the two surveys, the program projected the inventory from 1967 to 1986. The program outputs volume, net growth, and removals of growing stock for every year in the period. Thus, inconsistencies in volume, growth, and removals were identified and resolved.

This program estimates how volume, growth, and removals could have logically changed over the inventory period to be consistent with the estimates of past and current volume, growth, and removals and average annual removals presented in this report. The growing-stock growth used for this program was increased by 6.1 million cubic feet per year in both 1967 and 1986 to account for nontimberland that converted to timberland. Between 1967 and 1986, we found that about 900,000 acres of nontimberland converted to timberland. The current growing-stock volume on this land is 514 million cubic feet. Removals did not require adjustment because they already include "other" removals (see Definition of Terms in Appendix), which includes the volume of timber on land that converted from timberland to nontimberland. Between 1967 and 1986, we found that about 500,000 acres of timberland converted to nontimberland. The growing-stock volume on this land was 400 million cubic feet in 1966.

## LOG GRADE

In Indiana the butt log of every sawtimber sample tree was graded for quality. Additionally, all logs in a smaller sample of trees throughout the State were graded. The volume yield by log grade for each tree in the latter sample was used to distribute the volume of trees in the former sample into log-grade classes by species group. The resulting volumes by log-grade classes were expanded to provide an estimate for the entire State.

Logs were graded on the basis of external characteristics as indicators of quality. Hardwood species were graded according to "A guide to hardwood log grading" 1973[11]. The best 12-foot section of the lowest 16-foot hardwood log, or the best 12-foot upper section if the butt log did not meet minimum log-grade standards, was graded as follows:

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[11] *Rast, Everette D.; Sonderman, David L.; Gammon, Glenn L. 1973. A guide to hardwood log grading. Gen. Tech. Rep. NE-1. Upper Darby, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. 31 p.*

# Forest Service standard grades for hardwood factory saw logs

| Grading factors | | Specifications | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Log grade 1 | | | Log grade 2 | | | | Log grade 3 |
| Position in tree | | Butts only | Butts and uppers | | Butts and uppers | | | | Butts and uppers |
| Scaling diameter, inches | | [1]13-15 | 16-19 | 20+ | [2]11+ | 12+ | | | 8+ |
| Length without trim, feet | | | 10+ | | 10+ | 8-9 | 10-11 | 12+ | 8+ |
| Required clear cuttings[3] of each of three best faces[4] | Min. length, feet | 7 | 5 | 3 | 3 | 3 | 3 | 3 | 2 |
| | Max. number | 2 | 2 | 2 | 2 | 2 | 2 | 3 | No Limit |
| | Min. proportion of log length required in clear cutting | 5/6 | 5/6 | 5/6 | 2/3 | 3/4 | 2/3 | 2/3 | 1/2 |
| Maximum sweep and crook allowance | For logs with less than one-fourth of end in sound defects | | 15 percent | | | 30 percent | | | 50 percent |
| | For logs with more than one-fourth of end in sound defects | | 10 percent | | | 20 percent | | | 35 percent |
| Maximum scaling deduction | | | 40 percent[5] | | | 50 percent[6] | | | 50 percent |

[1]Ash and basswood butts can be 12 inches if they otherwise meet requirements for small #1's.
[2]Ten-inch logs of all species can be #2's if they otherwise meet requirements for small #1's.
[3]A clear cutting is a portion of a face, extending the width of the face, that is free of defects.
[4]A face is one-fourth of the surface of the log as divided lengthwise.
[5]Otherwise #1 logs with 41-60 percent deductions can be #2.
[6]Otherwise #2 logs with 51-60 percent deductions can be #3.

## Forest Service standard specifications for hardwood construction logs (tie and timber logs)[1]

| | | |
|---|---|---|
| Position in tree | | Butt and upper |
| Min. diameter, small end | | 8 inches + |
| Min. length, without trim | | 8 feet |
| Clear cuttings | | No requirements. |
| Sweep allowance, absolute | | One-fourth of the diameter at the small end for each 8 feet of length. |
| Sound surface defects | Single knots | Any number, if no one knot has an average diameter above the callus in excess of one-third of the log diameter at point of occurrence. |
| | Whorled knots | Any number if sum of knot diameters above the callus does not exceed one-third of the log diameter at point of occurrence. |
| | Holes | Any number provided none has a diameter over one-third of the log diameter at point of occurrence, and none extends more than 3 inches into included timber.[2] |
| Unsound surface defects | | Same requirements as for sound defects if they extend into included timber.[2] No limit if they do not. |
| End defects | Sound | No requirements. |
| | Unsound | None allowed; log must be sound internally, but will admit one shake not to exceed one-fourth the scaling diameter and will admit a longitudinal split not extending more than 5 inches into the contained timber. |

[1]These specifications are minimum for the class. If, from a group of logs, factory logs are selected first, thus leaving only nonfactory logs from which to select construction logs, then the quality range of the construction logs so selected is limited, and the class may be considered a grade. If selection for construction logs is given first priority, it may be necessary to subdivide the class into grades.
[2]Included timber is always square, and dimension is judged from small end.

Softwood species were graded according to the following specifications on the following page.

# Log Grades for Eastern White Pine

| Log grade | Minimum size Diameter | Length[1] | Sweep or crook allowance | Total cull allowance including sweep | Maximum weevil injury | Allowable knot size (inches)[2] on three best faces or minimum clearness on four faces |
|---|---|---|---|---|---|---|
| | *(Inches)* | *(Feet)* | *(Percent)* | | *(Number)* | *(Inches)* |
| 1 | 12 & 13 | 8-16 | 20 | 50 | 0 | Four faces clear full length |
| | 14+ | 10-16 | 20 | 50 | 0 | Two faces clear full length, or four faces clear 50 percent length (6 feet min. length)[3] |
| 2 | 6+ | 8-16 | 30 | 50 | 0 | Sound knots 1.e[4]<br>D/6 and less than 3 inches.[5]<br>Unsound knots: 1.e. 1½ inches and for: butt, logs 1.e. D/12, upper logs 1.e.D/10, or four faces clear 50 percent of length |
| 3 | 6+ | 8-16 | 40 | 50 | 8-foot logs: 1 weevil<br>10-foot+ logs: 2 weevils | Sound knots 1.e.D/3 and less than 5 inches.<br>Unsound knots 1.e. D/6 and less than 2½ inches. |
| 4 | 6+ | 8-16 | 50 | 50 | No limit | No limit |

[1]Plus trim.
[2]Disregard all knots less than ½-inch diameter in all grades.
[3]The sum of the diameter of sound knots plus twice the sum of the diameter of unsound knots (in inches) is less than or equal to half of the diameter of the log (inches).
[4]l.e. means less than or equal to.
[5]D means d.i.b. of log at location of knot.

## LOG GRADES FOR JACK PINE AND RED PINE

*Grade 1:* logs with three or four clear faces.[12]

*Grade 2:* logs with one or two clear faces.

*Grade 3:* logs with no clear faces.

After the tentative log grade is established, the log will be degraded one grade for each of the following, except that no log can be degraded below grade 3. Net scale after deduction for defect must be at least 50 percent of the gross contents of the log.

1. *Sweep.* Degrade any tentative 1 or 2 log one grade if sweep amounts to 3 or more inches and equals or exceeds one-third the diameter inside bark at small end.

2. *Heart rot.* Degrade any tentative 1 or 2 log one grade if conk, massed hyphae, or other evidence of advanced heart rot is found anywhere in it.

[12] *A face is one fourth of the circumference in width extending full length of the log. Clear faces are those free of: knots measuring more than ½-inch in diameter, overgrown knots of any size, holes more than ¼-inch in diameter. Faces may be rotated to obtain the maximum number of clear ones.*

## LOG GRADES FOR ALL OTHER SOFTWOOD LOGS

### Grade 1

1. Logs must be 16 inches in diameter or larger, 10 feet in length or longer, and have not more than 30 percent of gross scale deducted for defect.

2. Logs must be at least 75 percent clear on each of three faces.

3. All knots outside clear cutting must be sound and not more than 2½-inches in size.

### Grade 2

1. Logs must be 12 inches in diameter or larger, 10 feet in length or longer, and have a net scale of at least 50 percent of the gross contents of the log after deduction for defect.

2. Logs must be at least 50 percent clear on each of three faces or 75 percent clear on two faces.

### Grade 3

1. Logs must be 6 inches in diameter or larger, 8 feet in length or longer, and have a net scale of at least 50 percent of the gross contents of the log after deduction for defect.

Note: (A) Diameters are diameter inside bark (d.i.b.) at small end of log.

(B) Percent clear refers to percent clear in one continuous section.

## METRIC EQUIVALENTS OF UNITS USED IN THIS REPORT

1 acre = 4,046.86 square meters or 0.405 hectare.
1,000 acres = 405 hectares.
1 cubic foot = 0.0283 cubic meter.
1 foot = 30.48 centimeters or 0.3048 meter.
1 inch = 25.4 millimeters, 2.54 centimeters, or 0.0254 meter.
1 pound = 0.454 kilograms.
1 ton = 0.907 metric tons.

## TREE SPECIES GROUPS IN INDIANA[13]

SOFTWOODS
Jack pine . . . . . *Pinus banksiana*
Red pine . . . . . *Pinus resinosa*
White pine . . . . . *Pinus strobus*
Shortleaf pine . . . . . *Pinus echinata*
Other yellow pine
  Virginia pine . . . . . *Pinus virginiana*
Tamarack . . . . . *Larix laricina*
Baldcypress . . . . . *Taxodium distichum*
Eastern redcedar . . . . . *Juniperus virginiana*
Other softwoods
  Scotch pine . . . . . *Pinus sylvestris*
HARDWOODS
Select white oak
  White oak[14] . . . . . *Quercus alba*
  Swamp white oak[14] . . . . . *Quercus bicolor*
  Bur oak[14] . . . . . *Quercus macrocarpa*
  Swamp chestnut oak[14] . . . . . *Quercus michauxii*
  Chinkapin oak[14] . . . . . *Quercus muehlenbergii*
Other white oak
  Overcup oak[14] . . . . . *Quercus lyrata*
  Chestnut oak[14] . . . . . *Quercus prinus*
  Post oak[14] . . . . . *Quercus stellata*
Select red oak
  Cherrybark oak[14] *Quercus falcata* var. *pagodifolia*
  Northern red oak[14] . . . . . *Quercus rubra*
  Shumard oak[14] . . . . . *Quercus shumardii*
Other red oaks
  Scarlet oaks[14] . . . . . *Quercus coccinea*
  Northern pin oak[14] . . . . . *Quercus ellipsoidalis*
  Southern red oak[14] . . . . . *Quercus falcata*
  Shingle oak[14] . . . . . *Quercus imbricaria*
  Black oak[14] . . . . . *Quercus velutina*
  Blackjack oak[14] . . . . . *Quercus marilandica*
  Pin oak[14] . . . . . *Quercus palustris*
Select hickory
  Pecan[14] . . . . . *Carya illinoensis*
  Shellbark hickory[14] . . . . . *Carya lacinosa*
  Shagbark hickory[14] . . . . . *Carya ovata*
  Mockernut hickory[14] . . . . . *Carya tomentosa*
Other hickory
  Bitternut hickory[14] . . . . . *Carya cordiformis*
  Pignut hickory[14] . . . . . *Carya glabra*
Birch
  Yellow birch[14] . . . . . *Betula alleghaniensis*
  River birch[14] . . . . . *Betula nigra*
  Paper birch[14] . . . . . *Betula papyrifera*
Hard maple
  Black maple[14] . . . . . *Acer nigrum*
  Sugar maple[14] . . . . . *Acer saccharum*
Soft maple
  Red maple[15] . . . . . *Acer rubrum*
  Silver maple[15] . . . . . *Acer saccharinum*
Ash
  Black ash[15] . . . . . *Fraxinus nigra*
  Blue ash[14] . . . . . *Fraxinus quadrangulata*
  White ash[14] . . . . . *Fraxinus americana*
  Green ash[14] . . . . . *Fraxinus pennsylvanica*
Cottonwood[15] . . . . . *Populus deltoides*
Aspen
  Bigtooth aspen[15] . . . . . *Populus grandidentata*
  Quaking aspen[15] . . . . . *Populus tremuloides*
  Balsam poplar[15] . . . . . *Populus balsamifera*
Basswood
  American basswood[15] . . . . . *Tilia americana*
  White basswood[15] . . . . . *Tilia heterophylla*
Beech[14] . . . . . *Fagus grandifolia*
Black walnut[14] . . . . . *Juglans nigra*
Black cherry[15] . . . . . *Prunus serotina*
Butternut[15] . . . . . *Juglans cinerea*
Elm
  Winged elm[15] . . . . . *Ulmus alata*
  American elm[15] . . . . . *Ulmus americana*
  Siberian elm[15] . . . . . *Ulmus pumila*
  Slippery elm[15] . . . . . *Ulmus rubra*
  Rock elm[14] . . . . . *Ulmus thomasii*
Hackberry[15] . . . . . *Celtis occidentalis*
Sycamore[15] . . . . . *Platanus occidentalis*
Yellow-poplar[15] . . . . . *Liriodendron tulipifera*

[13] *The common and scientific names are based on: Little, Elbert L. 1979. Checklist of native and naturalized trees of the United States. Agric. Handb. 541. Washington, DC: U.S. Department of Agriculture, Forest Service. 375 p.*

[14] *This species is considered a hard hardwood, with an average specific gravity greater than or equal to 0.50.*

[15] *This species is considered a soft hardwood, with an average specific gravity of 0.50 or less.*

Black willow[15] . . . . . *Salix nigra*
Sweetgum[15] . . . . . *Liquidambar styraciflua*
Tupelo
Black tupelo[15] . . . . *Nyssa sylvatica* var. *sylvatica*
Swamp tupelo[15] . . . . . *Nyssa sylvatica* var. *biflora*
Persimmon[14] . . . . . *Diospyros virginiana*
Sassafras[15] . . . . . *Sassafras albidum*
Other hardwoods
Ohio buckeye[15] . . . . . *Aesculus glabra*
Boxelder[15] . . . . . *Acer negundo*
Kentucky coffeetree[14] . . . . . *Gymnocladus dioicus*
Black locust[14] . . . . . *Robinia pseudoacacia*
White mulberry[15] . . . . . *Morus alba*
Red mulberry[15] . . . . . *Morus rubra*
Flowering dogwood[14] . . . . . *Cornus florida*
Honeylocust[14] . . . . . *Gleditsia triacanthos*
Northern catalpa[15] . . . . . *Catalpa speciosa*
European alder[15] . . . . . *Alnus glutinosa*
White poplar[15] . . . . . *Populus alba*
Yellow buckeye[15] . . . . . *Aesculus octandra*
Noncommercial species[16]
Osage-orange . . . . . *Maclura pomifera*
Eastern hophornbeam . . . . . *Ostrya virginiana*
Apple . . . . . *Malus* spp.
American hornbeam . . . . . *Carpinus caroliniana*
Wild plum . . . . . *Prunus* spp.
Eastern redbud . . . . . *Cercis canadensis*
Pawpaw . . . . . *Asimina triloba*
Hawthorn . . . . . *Crataegus* spp.
Ailanthus . . . . . *Ailanthus altissima*
Chokecherry . . . . . *Prunus virginiana*

## DEFINITION OF TERMS

**Average annual removals from growing stock.**—The average net growing-stock volume in growing-stock trees removed annually for forest products (including roundwood products and logging residues) and for other uses (see other removals). Average annual removals of growing stock are reported for a period of several years (1966 to 1985 in this report) and are based on information obtained from remeasurement plots (see Survey Procedures).

**Average annual removals from sawtimber.**—The average net board foot sawtimber volume of live sawtimber trees removed annually for forest products (including roundwood products and other uses [see other removals]). Average annual removals of sawtimber are reported for a period of several years (1966 to 1985 in this report) and are based on information obtained from remeasurement plots (see Survey Procedures).

**Basal area.**—The area in square feet of the cross section at breast height of a single tree. When the basal area of all trees in a stand are summed, the result is usually epressed as square feet of basal area per acre.

**Biomass.**—The above-ground volume of all live trees (including bark and foliage) reported in green tons. Biomass is made up of 7 components:

*Growing-stock stumps.*—Biomass of a growing-stock tree 1-foot stump.

*Growing-stock bole.*—Biomass of a growing-stock tree from a 1-foot stump to a variable 4-inch top.

*Growing-stock tops and limbs.*—Biomass of a growing-stock tree from a 1-foot stump minus the growing-stock bole.

*Cull stumps.*—Biomass of a cull tree 1-foot stump.

*Cull bole.*—Biomass of a cull tree from a 1-foot stump to a variable 4-inch top.

*Cull tops and limbs.*—Biomass of a cull tree from a 1-foot stump minus the cull bole.

*1- to 5-inch trees.*—Biomass of all live trees from 1- to 5-inches in diameter at breast height.

**Commercial species.**—Tree species presently or prospectively suitable for industrial wood products. (Note: Excludes species of typically small size, poor form, or inferior quality such as hophornbeam, osage-orange and redbud.)

**Commercial forest land.**—(See timberland).

**County and municipal land.**—Land owned by counties and local public agencies or municipalities, or land leased to these governmental units for 50 years or more.

**Cropland.**—Land under cultivation within the past 24 months; including cropland harvested, crop failures, cultivated summer fallow, idle cropland used only for pasture, orchards, and land in soil improvement crops, but excluding land cultivated in developing improved pasture.

**Cull.**—Portions of a tree that are unusable for industrial wood products because of rot, form, or other defect.

**Diameter classes.**—A classification of trees based on diameter outside bark, measured at breast height (4½ feet above the ground). (Note: D.b.h. is the common abbreviation for diameter at breast height. Two-inch diameter classes are commonly used in Forest Inventory and Analysis, with the even inch the approximate midpoint for a class. For example, the 6-inch class includes trees 5.0 through 6.9 inches d.b.h.)

**Farm.**—Any place from which $1,000 or more of agricultural products were produced and sold during the year.

[16] *Individual noncommercial species were not classified as soft or hard hardwoods since they are predominately hard hardwoods, the entire group was classed as hard.*

**Farmer-owned land.**—Land owned by farm operators. (Note: Excludes land leased by farm operators from nonfarm owners, such as railroad companies and States.)

**Forest land.**—Land at least 16.7 percent stocked by forest trees of any size, or formerly having had such tree cover, and not currently developed for nonforest use. (Note: Stocking is measured by comparing specified standards with basal area and/or number of trees, age or size, and spacing.) The minimum area for classification of forest land is 1 acre. Roadside, streamside, and shelterbelt strips of timber must have a crown width of at least 120 feet to qualify as forest land. Unimproved roads and trails, streams, or other bodies of water or clearings in forest areas shall be classed as forest if less than 120 feet wide. Also see definitions for tree, land, timberland, reserved timberland, stocking, and water.

**Forest industry land.**—Land owned by companies or individuals operating primary wood-using plants.

**Forest type.**—A classification of forest land based on the species forming a plurality of live tree stocking. Major forest types in the State are:

*Jack-red-white pine.*—Forests in which jack, red or white pine, singly or in combination, comprise a plurality of the stocking. (These species are generally found in plantations in Indiana.)

*Shortleaf pine.*—Forests in which shortleaf pine comprises a plurality of the stocking. (Primarily plantations in Indiana.)

*Scotch-Virginia pine.*—Forests in which Scotch and Virginia pines and eastern redcedar, singly or in combination, comprise a plurality of the stocking. (Common associates include oak, yellow-poplar, red maple, sassafras, and white pine.)

*Oak-pine.*—Forests in which hardwoods (usually white, scarlet, chestnut, northern red or black oaks), singly or in combination, comprise a plurality of the stocking but where pines or eastern redcedar comprise 25 to 50 percent of the stocking. (Common associates include gum, hickory, sassafras, and yellow-poplar.)

*Oak-hickory.*—Forests in which upland oaks or hickories, singly or in combination, comprise a plurality of the stocking, and less than 25 percent of the stocking is in white, Scotch, and Virginia pines or eastern redcedar. (Common associates include yellow-poplar, elm, maple, black walnut, black locust, and sassafras.)

*Chestnut-scarlet oak.*—Forests in which chestnut oak or scarlet oak, singly or in combination, comprise a plurality of the stocking. (Common associates include eastern redcedar, black oak, white oak, and hickory.)

*Sassafras-persimmon.*—Forests in which sassafras and persimmon, singly or in combination, comprise at least 50 percent of the stocking. (Common associates include oak, yellow-poplar, elm, maple, and eastern redcedar.)

*Oak-gum.*—Bottomland forests in which tupelo, blackgum, sweetgum, oaks, or cypress, singly or in combination, comprise a plurality of the stocking. (Common associates include cottonwood, willow, ash, elm, hackberry, and maple.)

*Lowland oak.*—Bottomland forests in which wet site oaks such as swamp chestnut, cherrybark, and pin oak, singly or in combination, comprise a plurality of the stocking. (Common associates are swamp white oak, bur oak, soft maple, and sycamore.)

*Elm-ash-soft maple.*—Forests in which lowland elm, ash, soft maple, and cottonwood, singly or in combination, comprise a plurality of the stocking. (Common associates include boxelder, willow, sycamore, and beech.)

*Cottonwood.*—Forests in which cottonwood comprises at least 50 percent of the stocking. (Associates include willow, elm, soft maple, and ash.)

*Maple-beech.*—Forests in which hard maple or beech, singly or in combination, comprise a plurality of the stocking. (Common associates include soft maple, elm, and basswood.)

*Cherry-ash-yellow-poplar.*—Forests in which black cherry, white ash, and yellow-poplar, singly or in combination, comprise a plurality of the stocking. (Common associates include oak, maple, black walnut, beech, basswood, and sycamore.)

**Gross area.**—The entire area of land and water as determined by the Soil Conservation Service, 1980.

**Growing-stock trees.**—Live trees of commercial species that meet specified standards of size, quality, and merchantability. (Note: Excludes rough and rotten trees.)

**Growing-stock volume.**—Net volume in cubic feet of growing-stock trees 5 inches d.b.h. and over, from one foot above the ground to a minimum 4 inch top diameter outside bark of the central stem or to the point where the central stem breaks into limbs. Cubic feet can be converted to standard cords by dividing by 79. One standard cord is 128 cubic feet of stacked wood, including bark and air.

**Hard hardwoods.**—Hardwood species with an average specific gravity greater than or equal to 0.50 such as oaks, hard maple, hickories, and ash.

**Hardwoods.**—Dicotyledonous trees, usually broad-leaved and deciduous. See soft hardwoods and hard hardwoods.

**Idle farmland.**—Includes former cropland, orchards, improved pastures, and farm sites not tended

within the past 2 years and presently less than 16.7 percent stocked with trees.

**Improved pasture.**—Land currently improved for grazing by cultivating, seeding, irrigating, or clearing of trees or brush and less than 16.7 percent stocked with live trees.

**Industrial wood.**— All roundwood products, except fuelwood.

**Land.**—A. *Bureau of the Census.* Dry land and land temporarily or partly covered by water such as marshes, swamps, and river flood plains (omitting tidal flats below mean high tide); streams, sloughs, estuaries, and canals less than one-eighth of a statute mile wide; and lakes, reservoirs, and ponds less than 40 acres in area. This is the same definition that the Soil Conservation Service uses in the National Resource Inventory. Bureau of Census estimates of total land area where used in 1967; Soil Conservation Service estimates were used for 1986.

B. *Forest Inventory and Analysis.* The same as the Soil Conservation Service, except minimum width of streams, etc., is 120 feet and minimum size of lakes, etc., is 1 acre.

**Live trees.**—Growing-stock, rough, and rotten trees 1-inch d.b.h. and larger.

**Log grades.**—A classification of logs based on external characteristics as indicators of quality or value. (See Appendix for specific grading factors used.)

**Logging residues.**—The unused growing stock portions of trees cut or killed by logging.

**Maintained road.**—Any road, hard-topped or other surfaces, that is plowed or graded at least once a year. Includes rights-of-way that are cut or treated to limit herbaceous growth.

**Marsh.**—Nonforest land that characteristically supports low, generally herbaceous or shrubby vegetation and that is intermittently covered with water.

**Merchantable.**—Refers to a pulpwood or saw log section that meets pulpwood or saw log specifications, respectively.

**Miscellaneous federal land.**—Federal land other than National Forest.

**Miscellaneous private land.**—Privately owned land other than forest-industry and farmer-owned land.

**Mortality.**—The volume of sound wood in growing-stock and sawtimber trees that die annually.

**National forest land.**—Federal land that has been legally designated as National Forest or purchase units, and other land administered by the USDA Forest Service.

**Net annual growth of growing stock.**—The annual change in volume of sound wood in live sawtimber and poletimber trees and the total volume of trees entering these classes through ingrowth, less volume losses resulting from natural causes.

**Net annual growth of sawtimber.**—The annual change in the volume of live sawtimber trees and the total volume of trees reaching sawtimber size, less volume losses resulting from natural causes.

**Net volume.**—Gross volume less deductions for rot, sweep, or other defect affecting use for timber products.

**Noncommercial species.**—Tree species of typically small size, poor form, or inferior quality that normally do not develop into trees suitable for industrial wood products.

**Nonforest land.**—Land that has never supported forests, and land formerly forested where use for timber management is precluded by development for other uses. (Note: Includes areas used for crops, improved pasture, residential areas, city parks, improved roads of any width and adjoining clearings, powerline clearings of any width, and 1- to 40-acre areas of water classified by the Bureau of the Census as land. If intermingled in forest areas, unimproved roads and nonforest strips must be more than 120 feet wide and more than 1 acre in area to qualify as nonforest land.)

a. *Nonforest land without trees.*—Nonforest land with no live trees present.

b. *Nonforest land with trees.*—Nonforest land with one or more trees per acre at least 5 inches d.b.h.

**Nonstocked land.**—Timberland less than 16.7 percent stocked with growing-stock trees.

**Other removals.**—Growing-stock trees removed but not utilized for products, or trees left standing but "removed" from the timberland classification by land use change. Examples are removals from cultural operations such as timber stand improvement work, land clearing, and changes in land use.

**Ownership.**—Property owned by one owner, regardless of the number of parcels in a specified area.

**Ownership size class.**—The amount of timberland owned by one owner, regardless of the number of parcels.

**Owner tenure.**—The length of time a property has been held by the owner.

**Pasture.**—Land presently used for grazing or under cultivation to develop grazing.

**Pastured timberland.**—Timberland for which the primary use is wood production, but is presently used for grazing.

**Physiographic class.**—A measure of soil and water conditions that affect tree growth on a site. The physiographic classes are:

*Xeric sites.*—Very dry soils where excessive drainage seriously limits both growth and species occurrence. Example: cedar barrens.

*Xeromesic sites.*—Moderately dry soils where excessive drainage limits growth and species occur-

rence to some extent. Example: dry oak ridge.

*Mesic sites.*—Deep, well-drained soils. Growth and species occurrence are limited only by climate.

*Hydromesic sites.*—Moderately wet soils where insufficient drainage or infrequent flooding limits growth and species occurrence to some extent. Example: better drained bottomland hardwood sites.

*Hydric sites.*—Very wet sites where excess water seriously limits both growth and species occurrence. Example: frequently flooded river bottoms and cypress swamps.

**Plant byproducts.**—Plant residues used for products such as mulch, pulp chips, and fuelwood.

**Plant residues.**—Wood and bark materials generated at manufacturing plants during production of other products.

**Poletimber stands.**—(See stand-size class.)

**Poletimber trees.**—Growing-stock trees of commercial species at least 5 inches d.b.h. but smaller than sawtimber size.

**Reserved timberland.**—Forest land sufficiently productive to qualify as timberland but withdrawn from timber utilization through statute, administrative regulation, designation, or exclusive use for Christmas tree production, as indicated by annual shearing. Formerly called productive-reserved forest land.

**Rotten trees.**—Live trees of commercial species that do not contain at least one 12-foot saw log or two saw logs 8 feet or longer, now or prospectively, and/or do not meet regional specifications for freedom from defect primarily because of rot; that is, when more than 50 percent of the cull volume in a tree is rotten.

**Rough trees.**—(a) Live trees of commercial species that do not contain at least one merchantable 12-foot saw log or two saw logs 8 feet or longer, now or prospectively, and/or do not meet regional specifications for freedom from defect primarily because of roughness or poor form, and (b) all live trees of noncommercial species.

**Roundwood products.**—Logs, bolts, or other round sections (including chips from roundwood) cut from trees for industrial or consumer uses. (Note: Includes saw logs, veneer logs, and bolts; cooperage logs and bolts; pulpwood; fuelwood; piling; poles; posts; hewn ties; mine timbers; and various other round, split, or hewn products.)

**Salvable dead trees.**—Standing or down dead trees considered merchantable by regional standards.

**Saplings.**—Live trees 1 to 5 inches d.b.h.

**Sapling-seedling stands.**—(See stand-size class.)

**Saw log.**—A log meeting minimum standards of diameter, length, and defect, including logs at least 8 feet long, sound and straight and with a minimum diameter outside bark (d.o.b.) for softwoods of 7 inches (9 inches for hardwoods) or other combinations of size and defect specified by regional standards.

**Saw log portion.**—That part of the bole of sawtimber trees between the stump and the saw log top.

**Saw log top.**—The point on the bole of sawtimber trees above which a saw log cannot be produced. The minimum saw log top is 7 inches d.o.b. for softwoods and 9 inches d.o.b. for hardwoods.

**Sawtimber stands.**—(See stand-size class.)

**Sawtimber trees.**—Growing-stock trees of commercial species containing at least a 12-foot saw log or two noncontiguous saw logs 8 feet or longer, and meeting regional specifications for freedom from defect. Softwoods must be at least 9 inches d.b.h. Hardwoods must be at least 11 inches d.b.h.

**Sawtimber volume.**—Net volume of the saw log portion of live sawtimber in board feet, International ¼-inch rule (unless specified otherwise) from stump to a minimum 7 inches top diameter outside bark (d.o.b.) for softwoods and a minimum 9 inches top d.o.b. for hardwoods.

**Seedlings.**—Live trees less than 1 inch d.b.h. that are expected to survive. Only softwood seedlings more than 6 inches tall and hardwood seedlings more than 1 foot tall are counted.

**Short-log (rough tree).**—Sawtimber-size trees of commercial species that contain at least one merchantable 8- to 11-foot saw log but not a 12-foot saw log.

**Site class.**—A classification of forest land in terms of inherent capacity to grow crops of industrial wood based on fully stocked natural stands.

**Site index.**—An expression of forest site quality based on the height of a free-growing dominant or codominant tree of a representative species in the forest type at age 50.

**Soft hardwoods.**—Hardwood species with an average specific gravity less than 0.50 such as gum, yellow-poplar, cottonwood, red maple, basswood, and willow.

**Softwoods.**—Coniferous trees, usually evergreen, having needles or scale-like leaves.

**Stand.**—A group of trees on a minimum of 1 acre of forest land that is stocked by forest trees of any size.

**Stand-age class.**—Age of the main stand. Main stand refers to trees of the dominant forest type and stand-size class.

**Stand-area class.**—The extent of a continuous forested area of the same forest type, stand-size class, and stand-density class.

**Stand-size class.**—A classification of stocked (see stocking) forest land based on the size class of live trees on the area; that is, sawtimber, poletimber, or seedlings and saplings.

a. *Sawtimber stands.*—Stands with half or more of live stocking in sawtimber or poletimber trees, and with sawtimber stocking at least equal to poletimber stocking.

b. *Poletimber stands.*—Stands with half or more live stocking in poletimber and/or sawtimber trees, and with poletimber stocking exceeding that of sawtimber.

c. *Sapling-seedling stands.*—Stands with more than half of the live stocking in saplings and/or seedlings.

**State land.**—Land owned either by States or leased to them, for 50 years or more.

**Stocking.**—The degree of occupancy of land by trees, measured by basal area and/or the number of trees in a stand by size or age and spacing, compared to the basal area and/or number of trees required to fully utilize the growth potential of the land; that is, the stocking standard.

A stocking percent of 100 indicates full utilization of the site and is equivalent to 80 square feet of basal area per acre in trees 5 inches d.b.h. and larger. In a stand of trees less than 5 inches d.b.h., a stocking percent of 100 would indicate that the present number of trees is sufficient to produce 80 square feet of basal area per acre when the trees reach 5 inches d.b.h.

Stands are grouped into the following stocking classes:

*Overstocked stands.*—Stands in which stocking of trees is 130.0 percent or more.

*Fully stocked stands.*—Stands in which stocking of trees is from 100.0 to 129.9 percent.

*Medium stocked stands.*—Stands in which stocking of trees is from 60.0 to 99.9 percent.

*Poorly stocked stands.*—Stands in which stocking of trees is from 16.7 to 59.9 percent.

*Nonstocked areas.*—Commercial forest land on which stocking of trees is less than 16.7 percent.

**Timberland.**—Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization. (Note: Areas qualifying as timberland are capable of producing more than 20 cubic feet per acre per year of annual growth when managed. Currently inaccessible and inoperable areas are included except when the areas involved are small and unlikely to become suitable for producing industrial wood in the foreseeable future.) Formerly called commercial forest land. Also see definition of pastured timberland.

**Timber removals from growing stock.**—The net volume of growing stock in growing-stock trees removed for forest products (including roundwood products and logging residues) and for other uses (see other removals). Timber removals from growing stock are reported for a single year (1985 in this report) and are based on information obtained from a survey of primary wood-using mills (see Survey Procedures).

**Timber removals from sawtimber.**—The net board-foot volume of live sawtimber trees removed for forest products (including roundwood products and logging residues) and for other uses (see other removals). Timber removals from sawtimber are reported for a single year (1985 in this report) and are based on information obtained from a survey of primary wood-using mills (see Survey Procedures).

**Timber products output.**—All timber products cut from roundwood and byproducts of wood manufacturing plants. Roundwood products include logs, bolts, or other round sections cut from growing-stock trees, cull trees, salvable dead trees, trees on nonforest land, noncommercial species, sapling-size trees, and limbwood. Byproducts from primary manufacturing plants include slabs, edging, trimmings, miscuts, sawdust, shavings, veneer cores and clippings, and screenings of pulpmills that are used as pulpwood chips or other products.

**Trees.**—Woody plant having a well-developed stem and usually more than 12 feet tall at maturity.

**Tree biomass.**—The total aboveground weight (including the bark) of all trees from 1 to 5 inches in d.b.h., and the total aboveground weight (including the bark) from a 1-foot stump for trees more than 5 inches in diameter.

**Tree size class.**—A classification of trees based on diameter at breast height, including sawtimber trees, poletimber trees, saplings, and seedlings.

**Upper stem portion.**—That part of the bole of sawtimber trees above the saw log top to a minimum top diameter of 4 inches outside bark or to the point where the central stem breaks into limbs.

**Urban and other areas.**—Areas within the legal boundaries of cities and towns; suburban areas developed for residential, industrial, or recreational purposes; schoolyards; cemeteries; roads; railroads; airports; beaches; powerlines and other rights-of-way; or other nonforest land not included in any other specified land use class.

**Urban forest land.**—Land that would otherwise meet the criteria for timberland, but is in an urban-suburban area surrounded by commercial, industrial, or residential development.

**Water.**—(a) *Bureau of the Census.*—Permanent inland water surfaces, such as lakes, reservoirs, and ponds at least 40 acres in area; and streams, sloughs, estuaries, and canals at least one-eighth of a statute mile wide. This is the same definition that the Soil Conservation Service uses in the National

Resource Inventory. Bureau of Census estimates of total water area were used in 1967; Soil Conservation Service estimates were used for 1986.

(b) *Noncensus.*—Permanent inland water surfaces, such as lakes, reservoirs, and ponds from 1 to 39.9 acres in area; and streams, sloughs, estuaries, and canals from 120 feet to one-eighth of a statute mile wide.

**Windbreaks.**—A group of trees whose primary use is to protect buildings currently in use.

**Wooded pasture.**—Improved pasture with more than 16.7 percent stocking in live trees but less than 25 percent stocking in growing-stock trees. Area is currently improved for grazing or there is other evidence of grazing.

**Wooded strip.**—An acre or more of natural continuous forest land that would otherwise meet survey standards for timberland except that it is less than 120 feet wide.

**Woodland.**—Forest land incapable of producing 20 cubic feet per acre of annual growth or of yielding crops of industrial wood under natural conditions because of adverse site conditions. (Note: Adverse conditions include shallow soil, dry climate, poor drainage, high elevation, steepness, and rockiness.) Formerly called unproductive forest land.

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(In thousand acres)

| | All Units | | | Lower Wabash Unit | | Knobs Unit | | Upland Flats Unit | | Northern Unit | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Land class | 1950[1/] | 1967 | 1986 | 1967 | 1986 | 1967 | 1986 | 1967 | 1986 | 1967 | 1986 |
| Forest Land | | | | | | | | | | | |
| Timberland | | | | | | | | | | | |
| Pine | 55.0 | 54.0 | 149.2 | 12.1 | 30.9 | 38.6 | 95.7 | -- | 5.8 | 3.3 | 16.8 |
| Oak-pine | 75.0 | 46.0 | 104.2 | -- | 2.3 | 46.0 | 54.2 | -- | 45.6 | -- | 2.1 |
| Oak-hickory[2/] | 2,312.0 | 2,366.7 | 1,436.7 | 530.3 | 303.5 | 1,262.0 | 741.3 | 176.8 | 116.1 | 397.6 | 275.8 |
| Oak-gum[3/] | 138.0 | 52.2 | 82.6 | 14.7 | 16.4 | 9.1 | 27.7 | 12.7 | 14.4 | 15.7 | 24.1 |
| Elm-ash-soft maple[4/] | 984.0 | 524.3 | 848.9 | 153.9 | 231.1 | 99.9 | 207.0 | 50.4 | 86.7 | 220.1 | 324.1 |
| Maple-beech[5/] | 416.0 | 771.2 | 1,633.7 | 106.0 | 274.1 | 305.8 | 605.5 | 93.7 | 296.0 | 265.7 | 458.1 |
| Aspen-birch | 41.0 | 13.1 | -- | 7.8 | -- | -- | -- | -- | -- | 5.3 | -- |
| Nonstocked | 61.0 | 68.3 | 40.5 | 11.4 | 2.1 | 7.8 | 9.7 | 20.1 | 6.5 | 29.0 | 22.2 |
| Subtotal | 4,082.0 | 3,895.8 | 4,295.8 | 836.2 | 860.4 | 1,769.2 | 1,741.1 | 353.7 | 571.1 | 936.7 | 1,123.2 |
| Reserved timberland | 58.0 | 38.5 | 143.4 | 1.0 | 17.2 | 26.9 | 64.2 | 6.2 | 33.1 | 4.4 | 28.9 |
| Woodland | -- | 30.0 | -- | 3.0 | -- | -- | -- | 7.7 | -- | 19.3 | -- |
| All forest land | 4,140.0 | 3,964.3 | 4,439.2 | 840.2 | 877.6 | 1,796.1 | 1,805.3 | 367.6 | 604.2 | 960.4 | 1,152.1 |
| Nonforest land | | | | | | | | | | | |
| Cropland | 12,608.0 | 13,264.5 | 13,936.2 | 1,953.2 | 2,052.8 | 1,431.6 | 1,325.0 | 676.1 | 606.6 | 9,203.6 | 9,951.8 |
| Pasture | 2,167.0 | 2,100.0 | 1,583.0 | 357.6 | 260.3 | 448.7 | 394.6 | 373.1 | 197.0 | 920.6 | 731.1 |
| Other | 4,256.0 | 3,832.3 | 3,043.7 | 539.4 | 467.8 | 515.8 | 623.2 | 231.8 | 236.6 | 2,545.3 | 1,716.1 |
| All nonforest land | 19,031.0 | 19,196.8 | 18,562.9 | 2,850.2 | 2,780.9 | 2,396.1 | 2,342.8 | 1,281.0 | 1,040.2 | 12,669.5 | 12,399.0 |
| Total land | 23,171.0 | 23,161.1 | 23,002.1 | 3,690.4 | 3,658.5 | 4,192.2 | 4,148.1 | 1,648.6 | 1,644.4 | 13,629.9 | 13,551.1 |
| Water | 55.2 | 65.1 | 156.5 | 13.3 | 28.0 | 2.4 | 38.8 | -- | 6.6 | 49.4 | 83.1 |
| Total land and water[6/] | 23,226.2 | 23,226.2 | 23,158.6 | 3,703.7 | 3,686.5 | 4,194.6 | 4,186.9 | 1,648.6 | 1,651.0 | 13,679.3 | 13,634.2 |

[1/] 1950 data are only available at the State level.

[2/] Includes all the 1986 oak-hickory, chestnut-scarlet oak, and sassafrass-persimmon types.

[3/] Includes all the 1986 oak-gum-cypress and lowland oak types.

[4/] Includes all the 1986 elm-ash-soft maple and cottonwood types.

[5/] Includes all the 1986 maple-beech and cherry-ash-yellow-poplar types.

[6/] 1950 land and water totals come from the Bureau of Census, 1950. 1967 land and water totals come from the Bureau of Census, 1960. 1986 land and water totals come from the 1982 National Resource Inventory, Soil Conservation Service.

Table 7.--Area of timberland by county, Indiana, 1950, 1967, and 1986

(In thousand acres)

| Unit and county | 1950 | 1967 | 1986 |
|---|---|---|---|
| Lower Wabash Unit | | | |
| Clay | 54.0 | 53.0 | 44.3 |
| Daviess | 41.0 | 41.9 | 41.6 |
| Gibson | 43.0 | 48.9 | 42.0 |
| Greene | 101.0 | 99.5 | 105.3 |
| Knox | 34.0 | 39.4 | 30.8 |
| Martin | 126.0 | 111.1 | 128.4 |
| Parke | 97.0 | 90.0 | 87.6 |
| Pike | 43.0 | 79.8 | 83.9 |
| Posey | 38.0 | 42.1 | 45.1 |
| Putnam | 74.0 | 71.5 | 76.5 |
| Sullivan | 49.0 | 53.8 | 64.7 |
| Vanderburgh | 19.0 | 20.0 | 24.7 |
| Vermillion | 31.0 | 35.0 | 34.7 |
| Vigo | 45.0 | 50.2 | 50.8 |
| Total | 795.0 | 836.2 | 860.4 |
| Knobs Unit | | | |
| Brown | 134.0 | 133.3 | 131.6 |
| Clark | 82.0 | 92.1 | 84.9 |
| Crawford | 102.0 | 112.8 | 119.3 |
| Dubois | 86.0 | 96.7 | 93.0 |
| Floyd | 36.0 | 36.6 | 34.5 |
| Harrison | 122.0 | 130.9 | 132.1 |
| Jackson | 121.0 | 121.9 | 120.6 |
| Lawrence | 125.0 | 125.5 | 125.3 |
| Monroe | 132.0 | 133.8 | 117.5 |
| Morgan | 84.0 | 91.9 | 86.7 |
| Orange | 123.0 | 118.4 | 129.1 |
| Owen | 114.0 | 113.8 | 107.5 |
| Perry | 161.0 | 142.8 | 152.5 |
| Scott | 43.0 | 45.1 | 43.0 |
| Spencer | 45.0 | 67.8 | 62.5 |
| Warrick | 49.0 | 75.5 | 81.4 |
| Washington | 118.0 | 130.3 | 119.6 |
| Total | 1,677.0 | 1,769.2 | 1,741.1 |
| Upland Flats Unit | | | |
| Dearborn | 61.0 | 39.0 | 91.1 |
| Fayette | 19.0 | 15.8 | 33.5 |
| Franklin | 70.0 | 56.6 | 80.4 |
| Jefferson | 79.0 | 60.7 | 78.3 |
| Jennings | 74.0 | 67.5 | 87.6 |
| Ohio | 20.0 | 13.2 | 27.9 |
| Ripley | 61.0 | 49.8 | 75.7 |
| Switzerland | 45.0 | 38.8 | 75.2 |
| Union | 14.0 | 12.3 | 21.4 |
| Total | 443.0 | 353.7 | 571.1 |

(Table 7 continued on next page)

(Table 7 continued)

| Unit and county | 1950 | 1967 | 1986 |
|---|---|---|---|
| Northern Unit | | | |
| Adams | 20.0 | 14.0 | 14.1 |
| Allen | 43.0 | 35.3 | 29.8 |
| Bartholomew | 35.0 | 35.2 | 44.8 |
| Benton | 2.0 | 3.0 | 1.5 |
| Blackford | 8.0 | 6.9 | 9.4 |
| Boone | 15.0 | 11.1 | 15.2 |
| Carroll | 16.0 | 16.0 | 18.4 |
| Cass | 29.0 | 20.2 | 24.2 |
| Clinton | 11.0 | 9.5 | 9.2 |
| Decatur | 22.0 | 23.0 | 24.1 |
| De Kalb | 29.0 | 21.7 | 27.3 |
| Delaware | 17.0 | 11.2 | 15.8 |
| Elkhart | 28.0 | 25.4 | 29.1 |
| Fountain | 28.0 | 26.5 | 36.6 |
| Fulton | 17.0 | 15.8 | 20.4 |
| Grant | 18.0 | 14.0 | 18.2 |
| Hamilton | 21.0 | 13.6 | 20.0 |
| Hancock | 15.0 | 8.9 | 11.8 |
| Hendricks | 17.0 | 15.3 | 17.7 |
| Henry | 19.0 | 14.2 | 20.6 |
| Howard | 11.0 | 6.6 | 8.6 |
| Huntington | 23.0 | 20.3 | 22.9 |
| Jasper | 48.0 | 24.4 | 27.0 |
| Jay | 17.0 | 18.6 | 24.0 |
| Johnson | 17.0 | 12.2 | 20.1 |
| Kosciusko | 39.0 | 27.5 | 33.0 |
| La Grange | 27.0 | 19.0 | 35.9 |
| Lake | 30.0 | 9.5 | 17.8 |
| La Porte | 35.0 | 28.0 | 41.4 |
| Madison | 15.0 | 11.7 | 13.0 |
| Marion | 22.0 | 13.4 | 0.9 |
| Marshall | 28.0 | 25.1 | 31.0 |
| Miami | 24.0 | 20.2 | 25.4 |
| Montgomery | 23.0 | 21.8 | 24.0 |
| Newton | 27.0 | 18.4 | 17.9 |
| Noble | 28.0 | 23.2 | 32.3 |
| Porter | 31.0 | 25.6 | 30.6 |
| Pulaski | 29.0 | 24.2 | 27.0 |
| Randolph | 20.0 | 14.1 | 19.7 |
| Rush | 11.0 | 12.3 | 12.4 |
| St. Joseph | 28.0 | 21.6 | 22.5 |
| Shelby | 16.0 | 13.0 | 12.5 |
| Starke | 34.0 | 24.4 | 26.9 |
| Steuben | 20.0 | 22.6 | 31.5 |
| Tippecanoe | 21.0 | 18.8 | 22.6 |
| Tipton | 10.0 | 6.3 | 4.7 |
| Wabash | 25.0 | 21.1 | 24.0 |
| Warren | 19.0 | 20.1 | 23.8 |
| Wayne | 23.0 | 23.1 | 31.9 |
| Wells | 16.0 | 16.4 | 16.2 |
| White | 16.0 | 12.4 | 13.0 |
| Whitley | 28.0 | 20.0 | 20.5 |
| Total | 1,171.0 | 936.7 | 1,123.2 |
| All counties | 4,086.0 | 3,895.8 | 4,295.8 |

Table 8.--Area of timberland by stand-size class and Forest Survey Unit, Indiana, 1950, 1967, and 1986

(In thousand acres)

| Unit and stand-size class | 1950[1/] | 1967 | 1986 |
|---|---|---|---|
| All Units | | | |
| Sawtimber | 2,084.0 | 2,036.5 | 2,770.0 |
| Poletimber | 1,337.0 | 865.7 | 673.5 |
| Seedling-sapling | 600.0 | 925.3 | 811.8 |
| Nonstocked | 61.0 | 68.3 | 40.5 |
| Total | 4,082.0 | 3,895.8 | 4,295.8 |
| Lower Wabash Unit | | | |
| Sawtimber | -- | 432.2 | 582.5 |
| Poletimber | -- | 177.6 | 112.0 |
| Seedling-sapling | -- | 215.0 | 163.8 |
| Nonstocked | -- | 11.4 | 2.1 |
| Total | -- | 836.2 | 860.4 |
| Knobs Unit | | | |
| Sawtimber | -- | 900.8 | 1,148.7 |
| Poletimber | -- | 425.1 | 254.0 |
| Seedling-sapling | -- | 435.5 | 328.7 |
| Nonstocked | -- | 7.8 | 9.7 |
| Total | -- | 1,769.2 | 1,741.1 |
| Upland Flats Unit | | | |
| Sawtimber | -- | 172.4 | 285.4 |
| Poletimber | -- | 75.8 | 113.9 |
| Seedling-sapling | -- | 85.4 | 165.3 |
| Nonstocked | -- | 20.1 | 6.5 |
| Total | -- | 353.7 | 571.1 |
| Northern Unit | | | |
| Sawtimber | -- | 531.1 | 753.4 |
| Poletimber | -- | 187.2 | 193.6 |
| Seedling-sapling | -- | 189.4 | 154.0 |
| Nonstocked | -- | 29.0 | 22.2 |
| Total | -- | 936.7 | 1,123.2 |

[1/] 1950 data are only available at the State level.

Table 9.--Area of land by land use class and Forest Survey Unit, Indiana, 1986

(In thousand acres)

| Land use class | All Units | Forest Survey Unit | | | |
|---|---|---|---|---|---|
| | | Lower Wabash | Knobs | Upland Flats | Northern |
| Forest land | | | | | |
| Timberland | 4,295.8 | 860.4 | 1,741.1 | 571.1 | 1,123.2 |
| Reserved timberland | 143.4 | 17.2 | 64.2 | 33.1 | 28.9 |
| Total | 4,439.2 | 877.6 | 1,805.3 | 604.2 | 1,152.1 |
| Nonforest land | | | | | |
| Nonforest with trees | | | | | |
| Cropland with trees | 78.1 | 22.9 | 19.6 | 10.1 | 25.5 |
| Improved pasture with trees | 149.9 | 33.3 | 52.2 | 28.8 | 35.6 |
| Wooded strips | 111.7 | 31.3 | 28.0 | 14.3 | 38.1 |
| Idle farmland with trees | 24.4 | 4.1 | 13.8 | 2.1 | 4.4 |
| Marsh with trees | 12.1 | -- | 1.9 | -- | 10.2 |
| Urban timberland | 117.0 | 6.5 | 16.2 | 4.9 | 89.4 |
| Urban and other with trees | 274.6 | 47.0 | 61.4 | 27.0 | 139.2 |
| Windbreaks | 40.2 | 12.1 | 15.2 | 1.7 | 11.2 |
| Wooded pasture | 120.0 | 24.4 | 35.0 | 29.4 | 31.2 |
| Subtotal | 928.0 | 181.6 | 243.3 | 118.3 | 384.8 |
| Nonforest without trees | | | | | |
| Cropland without trees | 13,858.1 | 2,029.9 | 1,305.4 | 596.5 | 9,926.3 |
| Improved pasture without trees | 1,313.1 | 202.6 | 307.4 | 138.8 | 664.3 |
| Idle farm without trees | 213.0 | 31.4 | 91.9 | 35.7 | 54.0 |
| Marsh without trees | 47.7 | 2.1 | -- | 2.1 | 43.5 |
| Other farm-farmstead | 382.3 | 42.1 | 62.3 | 31.8 | 246.1 |
| Urban and other | 1,720.0 | 260.1 | 306.9 | 112.0 | 1,041.0 |
| Noncensus water | 100.7 | 31.1 | 25.6 | 5.0 | 39.0 |
| Subtotal | 17,634.9 | 2,599.3 | 2,099.5 | 921.9 | 12,014.2 |
| Total | 18,562.9 | 2,780.9 | 2,342.8 | 1,040.2 | 12,399.0 |
| Total land | 23,002.1 | 3,658.5 | 4,148.1 | 1,644.4 | 13,551.1 |
| Water[1/] | 156.5 | 28.0 | 38.8 | 6.6 | 83.1 |
| Total land and water | 23,158.6 | 3,686.5 | 4,186.9 | 1,651.0 | 13,634.2 |

[1/] 1982 National Resource Inventory, Soil Conservation Service, USDA.

Table 10.--Area of land by county and major land use class, Indiana, 1986

| Unit and county | Land area | Forest land | | | | Nonforest land with trees | Nonforest land as a percent of land area | Sampling error for timberland |
|---|---|---|---|---|---|---|---|---|
| | | All forest land | Reserved timberland | Timberland | Timberland as a percent of land area | | | |
| | Thousand acres | | | | Percent | Thousand acres | Percent | Percent |
| Lower Wabash Unit | | | | | | | | |
| Clay | 230.5 | 44.7 | 0.4 | 44.3 | 19.2 | 15.7 | 6.8 | 11.11 |
| Daviess | 276.6 | 42.1 | 0.5 | 41.6 | 15.0 | 9.9 | 3.6 | 11.46 |
| Gibson | 313.6 | 42.4 | 0.4 | 42.0 | 13.4 | 14.3 | 4.6 | 11.41 |
| Greene | 348.6 | 106.2 | 0.9 | 105.3 | 30.2 | 20.9 | 6.0 | 7.20 |
| Knox | 332.6 | 31.0 | 0.2 | 30.8 | 9.3 | 17.3 | 5.2 | 13.32 |
| Martin | 216.8 | 131.9 | 3.5 | 128.4 | 59.2 | 6.4 | 3.0 | 6.52 |
| Parke | 284.2 | 91.0 | 3.4 | 87.6 | 30.8 | 12.8 | 4.5 | 7.90 |
| Pike | 218.0 | 84.4 | 0.5 | 83.9 | 38.5 | 8.6 | 3.9 | 8.07 |
| Posey | 261.8 | 49.9 | 4.8 | 45.1 | 17.2 | 9.5 | 3.6 | 11.01 |
| Putnam | 308.4 | 76.7 | 0.2 | 76.5 | 24.8 | 16.0 | 5.2 | 8.45 |
| Sullivan | 287.8 | 65.5 | 0.8 | 64.7 | 22.5 | 9.9 | 3.4 | 9.19 |
| Vanderburgh | 151.1 | 25.7 | 1.0 | 24.7 | 16.3 | 18.7 | 12.4 | 14.87 |
| Vermillion | 166.4 | 35.0 | 0.3 | 34.7 | 20.9 | 6.2 | 3.7 | 12.55 |
| Vigo | 262.1 | 51.1 | 0.3 | 50.8 | 19.4 | 15.4 | 5.9 | 10.37 |
| Total | 3,658.5 | 877.6 | 17.2 | 860.4 | 23.5 | 181.6 | 5.0 | 2.52 |
| Knobs Unit | | | | | | | | |
| Brown | 199.2 | 150.0 | 18.4 | 131.6 | 66.1 | 10.4 | 5.2 | 3.02 |
| Clark | 240.8 | 85.9 | 1.0 | 84.9 | 35.3 | 14.2 | 5.9 | 3.76 |
| Crawford | 196.1 | 120.8 | 1.5 | 119.3 | 60.8 | 7.8 | 4.0 | 3.17 |
| Dubois | 274.8 | 93.8 | 0.8 | 93.0 | 33.8 | 15.2 | 5.5 | 3.59 |
| Floyd | 95.8 | 34.9 | 0.4 | 34.5 | 36.0 | 14.2 | 14.8 | 5.90 |
| Harrison | 311.0 | 135.2 | 3.1 | 132.1 | 42.5 | 17.1 | 5.5 | 3.01 |
| Jackson | 327.8 | 125.2 | 4.6 | 120.6 | 36.8 | 17.2 | 5.2 | 3.15 |
| Lawrence | 289.3 | 126.8 | 1.5 | 125.3 | 43.3 | 15.4 | 5.3 | 3.09 |
| Monroe | 246.4 | 130.8 | 13.3 | 117.5 | 47.7 | 13.3 | 5.4 | 3.20 |
| Morgan | 261.6 | 88.2 | 1.5 | 86.7 | 33.1 | 18.3 | 7.0 | 3.72 |
| Orange | 254.7 | 131.5 | 2.4 | 129.1 | 50.7 | 13.3 | 5.2 | 3.05 |
| Owen | 247.1 | 110.3 | 2.8 | 107.5 | 43.5 | 15.7 | 6.4 | 3.34 |
| Perry | 244.2 | 153.8 | 1.3 | 152.5 | 62.4 | 9.7 | 4.0 | 2.80 |
| Scott | 122.5 | 45.6 | 2.6 | 43.0 | 35.1 | 6.9 | 5.6 | 5.28 |
| Spencer | 256.2 | 65.0 | 2.5 | 62.5 | 24.4 | 14.8 | 5.8 | 4.38 |
| Warrick | 250.4 | 84.0 | 2.6 | 81.4 | 32.5 | 16.8 | 6.7 | 3.84 |
| Washington | 330.2 | 123.5 | 3.9 | 119.6 | 36.2 | 23.0 | 7.0 | 3.17 |
| Total | 4,148.1 | 1,805.3 | 64.2 | 1,741.1 | 42.0 | 243.3 | 5.9 | .83 |
| Upland Flats Unit | | | | | | | | |
| Dearborn | 196.7 | 91.1 | -- | 91.1 | 46.3 | 12.6 | 6.4 | 8.86 |
| Fayette | 137.8 | 33.6 | 0.1 | 33.5 | 24.3 | 8.5 | 6.2 | 14.62 |
| Franklin | 246.9 | 82.2 | 1.8 | 80.4 | 32.6 | 17.4 | 7.0 | 9.43 |
| Jefferson | 232.0 | 87.3 | 9.0 | 78.3 | 33.8 | 19.7 | 8.5 | 9.56 |
| Jennings | 241.8 | 95.7 | 8.1 | 87.6 | 36.2 | 15.0 | 6.2 | 9.04 |
| Ohio | 55.8 | 27.9 | -- | 27.9 | 50.0 | 3.6 | 6.5 | 16.02 |
| Ripley | 286.3 | 88.8 | 13.1 | 75.7 | 26.4 | 25.9 | 9.0 | 9.72 |
| Switzerland | 143.1 | 75.7 | 0.5 | 75.2 | 52.6 | 8.9 | 6.2 | 9.76 |
| Union | 104.0 | 21.9 | 0.5 | 21.4 | 20.6 | 6.7 | 6.4 | 18.29 |
| Total | 1,644.4 | 604.2 | 33.1 | 571.1 | 34.7 | 118.3 | 7.2 | 3.54 |

(Table 10 continued on next page)

(Table 10 continued)

| Unit and county | Land area | Forest land | | | | Nonforest land with trees | Nonforest land as a percent of land area | Sampling error for timberland |
|---|---|---|---|---|---|---|---|---|
| | | All forest land | Reserved timberland | Timberland | Timberland as a percent of land area | | | |
| | Thousand acres | | | | Percent | Thousand acres | Percent | Percent |
| Northern Unit | | | | | | | | |
| Adams | 217.5 | 14.2 | 0.1 | 14.1 | 6.5 | 2.1 | 1.0 | 21.78 |
| Allen | 421.7 | 30.5 | 0.7 | 29.8 | 7.1 | 23.8 | 5.6 | 14.98 |
| Bartholomew | 261.5 | 47.1 | 2.3 | 44.8 | 17.1 | 6.9 | 2.6 | 12.22 |
| Benton | 260.2 | 1.5 | -- | 1.5 | 0.6 | 0.4 | 0.2 | 66.77 |
| Blackford | 106.0 | 9.4 | -- | 9.4 | 8.9 | 1.3 | 1.2 | 26.67 |
| Boone | 271.0 | 15.3 | 0.1 | 15.2 | 5.6 | 4.1 | 1.5 | 20.97 |
| Carroll | 238.1 | 18.5 | 0.1 | 18.4 | 7.7 | 6.1 | 2.6 | 19.06 |
| Cass | 265.1 | 24.3 | 0.1 | 24.2 | 9.1 | 5.8 | 2.2 | 16.62 |
| Clinton | 259.3 | 9.3 | 0.1 | 9.2 | 3.5 | 2.4 | 0.9 | 26.96 |
| Decatur | 238.6 | 24.3 | 0.2 | 24.1 | 10.1 | 3.4 | 1.4 | 16.66 |
| De Kalb | 232.4 | 27.4 | 0.1 | 27.3 | 11.7 | 5.9 | 2.5 | 15.65 |
| Delaware | 250.8 | 15.9 | 0.1 | 15.8 | 6.3 | 4.6 | 1.8 | 20.57 |
| Elkhart | 298.4 | 29.4 | 0.3 | 29.1 | 9.7 | 8.4 | 2.8 | 15.16 |
| Fountain | 254.6 | 37.4 | 0.8 | 36.6 | 14.4 | 8.4 | 3.3 | 13.52 |
| Fulton | 236.3 | 20.5 | 0.1 | 20.4 | 8.6 | 5.1 | 2.2 | 18.11 |
| Grant | 265.5 | 18.3 | 0.1 | 18.2 | 6.9 | 4.6 | 1.7 | 19.17 |
| Hamilton | 255.0 | 20.4 | 0.4 | 20.0 | 7.8 | 5.3 | 2.1 | 18.29 |
| Hancock | 196.5 | 11.9 | 0.1 | 11.8 | 6.0 | 4.9 | 2.5 | 23.81 |
| Hendricks | 261.7 | 17.8 | 0.1 | 17.7 | 6.8 | 5.1 | 1.9 | 19.44 |
| Henry | 251.8 | 20.7 | 0.1 | 20.6 | 8.2 | 8.4 | 3.3 | 18.02 |
| Howard | 187.6 | 8.7 | 0.1 | 8.6 | 4.6 | 7.4 | 3.9 | 27.88 |
| Huntington | 234.4 | 23.1 | 0.2 | 22.9 | 9.8 | 5.3 | 2.3 | 17.09 |
| Jasper | 359.0 | 27.9 | 0.9 | 27.0 | 7.5 | 6.6 | 1.8 | 15.74 |
| Jay | 245.8 | 24.1 | 0.1 | 24.0 | 9.8 | 3.0 | 1.2 | 16.69 |
| Johnson | 205.8 | 20.2 | 0.1 | 20.1 | 9.8 | 5.7 | 2.8 | 18.24 |
| Kosciusko | 345.2 | 33.1 | 0.1 | 33.0 | 9.6 | 5.8 | 1.7 | 14.24 |
| La Grange | 243.2 | 36.0 | 0.1 | 35.9 | 14.8 | 10.6 | 4.4 | 13.65 |
| Lake | 320.5 | 18.5 | 0.7 | 17.8 | 5.6 | 11.5 | 3.6 | 19.38 |
| La Porte | 384.2 | 42.2 | 0.8 | 41.4 | 10.8 | 11.2 | 2.9 | 12.71 |
| Madison | 289.8 | 13.1 | 0.1 | 13.0 | 4.5 | 4.4 | 1.5 | 22.68 |
| Marion | 252.9 | 1.9 | 1.0 | 0.9 | 0.4 | 53.3 | 21.1 | 86.20 |
| Marshall | 284.3 | 31.1 | 0.1 | 31.0 | 10.9 | 6.5 | 2.3 | 14.69 |
| Miami | 240.9 | 25.5 | 0.1 | 25.4 | 10.5 | 4.1 | 1.7 | 16.23 |
| Montgomery | 323.1 | 25.7 | 1.7 | 24.0 | 7.4 | 7.2 | 2.2 | 16.69 |
| Newton | 256.6 | 19.5 | 1.6 | 17.9 | 7.0 | 2.1 | 0.8 | 19.33 |
| Noble | 264.0 | 33.6 | 1.3 | 32.3 | 12.2 | 7.9 | 3.0 | 14.39 |
| Porter | 267.7 | 37.9 | 7.3 | 30.6 | 11.4 | 13.6 | 5.1 | 14.78 |
| Pulaski | 278.1 | 29.3 | 2.3 | 27.0 | 9.7 | 5.7 | 2.0 | 15.74 |
| Randolph | 290.2 | 19.8 | 0.1 | 19.7 | 6.8 | 4.2 | 1.4 | 18.42 |
| Rush | 261.2 | 12.6 | 0.2 | 12.4 | 4.7 | 7.4 | 2.8 | 23.22 |
| St. Joseph | 293.9 | 23.3 | 0.8 | 22.5 | 7.7 | 10.3 | 3.5 | 17.24 |
| Shelby | 264.0 | 12.6 | 0.1 | 12.5 | 4.7 | 2.1 | 0.8 | 23.13 |
| Starke | 198.0 | 27.1 | 0.2 | 26.9 | 13.6 | 6.9 | 3.5 | 15.77 |
| Steuben | 196.8 | 32.5 | 1.0 | 31.5 | 16.0 | 7.9 | 4.0 | 14.57 |
| Tippecanoe | 321.1 | 22.8 | 0.2 | 22.6 | 7.0 | 7.8 | 2.4 | 17.20 |
| Tipton | 166.6 | 4.8 | 0.1 | 4.7 | 2.8 | 4.2 | 2.5 | 37.72 |
| Wabash | 265.6 | 24.2 | 0.2 | 24.0 | 9.0 | 8.9 | 3.4 | 16.69 |
| Warren | 234.5 | 23.9 | 0.1 | 23.8 | 10.1 | 5.8 | 2.5 | 16.76 |
| Wayne | 258.3 | 32.0 | 0.1 | 31.9 | 12.3 | 17.1 | 6.6 | 14.48 |
| Wells | 236.9 | 17.3 | 1.1 | 16.2 | 6.8 | 3.4 | 1.4 | 20.32 |
| White | 324.0 | 13.1 | 0.1 | 13.0 | 4.0 | 4.9 | 1.5 | 22.68 |
| Whitley | 214.9 | 20.6 | 0.1 | 20.5 | 9.5 | 5.0 | 2.3 | 18.06 |
| Total | 13,551.1 | 1,152.1 | 28.9 | 1,123.2 | 8.3 | 384.8 | 2.8 | 2.44 |
| All counties | 23,002.1 | 4,439.2 | 143.4 | 4,295.8 | 18.7 | 928.0 | 4.0 | 1.00 |

Table 11.--Area of timberland by county and ownership class, Indiana, 1986

(In thousand acres)

| Unit and county | All owners | Ownership class: National forest | Misc. federal | State | County & municipal | Forest industry | Farmer | Misc. private-corp. | Misc. private-indiv. |
|---|---|---|---|---|---|---|---|---|---|
| Lower Wabash Unit | | | | | | | | | |
| Clay | 44.3 | -- | 2.9 | -- | 0.6 | -- | 17.4 | 6.8 | 16.6 |
| Daviess | 41.6 | -- | 2.6 | 3.6 | 0.4 | 0.2 | 13.8 | 6.7 | 14.3 |
| Gibson | 42.0 | -- | 1.9 | 0.2 | 0.5 | -- | 17.5 | 6.4 | 15.5 |
| Greene | 105.3 | -- | 7.1 | 4.5 | 0.9 | -- | 37.1 | 18.4 | 37.3 |
| Knox | 30.8 | -- | 2.0 | 0.4 | 0.4 | -- | 13.0 | 1.9 | 13.1 |
| Martin | 128.4 | 9.0 | 12.7 | 7.6 | 1.0 | 1.1 | 40.5 | 15.2 | 41.3 |
| Parke | 87.6 | -- | 3.5 | 0.3 | 0.9 | 0.7 | 33.2 | 15.3 | 33.7 |
| Pike | 83.9 | -- | 5.0 | 4.0 | 0.7 | -- | 28.5 | 15.7 | 30.0 |
| Posey | 45.1 | -- | 3.1 | 1.7 | 0.5 | -- | 17.1 | 5.9 | 16.8 |
| Putnam | 76.5 | -- | 6.7 | 2.1 | 1.0 | 0.1 | 29.2 | 3.7 | 33.7 |
| Sullivan | 64.7 | -- | 4.3 | 4.9 | 0.5 | -- | 20.6 | 11.6 | 22.8 |
| Vanderburgh | 24.7 | -- | 1.3 | -- | 0.3 | -- | 10.2 | 2.3 | 10.6 |
| Vermillion | 34.7 | -- | 3.1 | -- | 0.2 | -- | 14.1 | 4.1 | 13.2 |
| Vigo | 50.8 | -- | 3.0 | 0.2 | 0.4 | -- | 20.3 | 8.9 | 18.0 |
| Total | 860.4 | 9.0 | 59.2 | 29.5 | 8.3 | 2.1 | 312.5 | 122.9 | 316.9 |
| Knobs Unit | | | | | | | | | |
| Brown | 131.6 | 14.4 | 10.3 | 23.3 | 0.3 | 2.1 | 29.8 | 9.3 | 42.1 |
| Clark | 84.9 | -- | 4.1 | 15.9 | 0.3 | -- | 23.7 | 7.7 | 33.2 |
| Crawford | 119.3 | 19.5 | 8.3 | 12.6 | 0.3 | 2.4 | 27.2 | 8.2 | 40.8 |
| Dubois | 93.0 | 0.3 | 6.2 | 4.5 | 0.3 | 0.1 | 30.8 | 9.8 | 41.0 |
| Floyd | 34.5 | -- | -- | -- | 0.1 | 0.2 | 14.5 | 4.3 | 15.4 |
| Harrison | 132.1 | -- | -- | 13.9 | 0.5 | 1.0 | 41.4 | 11.7 | 63.6 |
| Jackson | 120.6 | 20.0 | 4.1 | 6.9 | 0.5 | 0.3 | 32.7 | 9.2 | 46.9 |
| Lawrence | 125.3 | 14.9 | 2.1 | -- | 0.3 | 0.6 | 39.3 | 12.5 | 55.6 |
| Monroe | 117.5 | 8.0 | 8.3 | 18.9 | 0.3 | 0.6 | 30.6 | 9.2 | 41.6 |
| Morgan | 86.7 | -- | -- | 5.2 | 0.6 | 1.1 | 28.5 | 8.3 | 43.0 |
| Orange | 129.1 | 26.0 | 12.4 | 1.3 | 0.4 | 0.7 | 31.5 | 8.9 | 47.9 |
| Owen | 107.5 | -- | 6.2 | 5.5 | 0.2 | 0.4 | 40.8 | 11.9 | 42.5 |
| Perry | 152.5 | 53.9 | -- | 3.4 | 0.3 | 2.6 | 32.6 | 10.3 | 49.4 |
| Scott | 43.0 | -- | -- | 5.3 | 0.3 | -- | 13.4 | 4.1 | 19.9 |
| Spencer | 62.5 | -- | -- | -- | 0.4 | 0.2 | 22.4 | 6.7 | 32.8 |
| Warrick | 81.4 | -- | -- | -- | 0.5 | 0.5 | 30.2 | 8.9 | 41.3 |
| Washington | 119.6 | -- | -- | 12.6 | 0.3 | 0.7 | 45.1 | 13.6 | 47.3 |
| Total | 1,741.1 | 157.0 | 62.0 | 129.3 | 5.9 | 13.5 | 514.5 | 154.6 | 704.3 |
| Upland Flats Unit | | | | | | | | | |
| Dearborn | 91.1 | -- | 2.2 | 0.3 | 0.5 | -- | 46.6 | 5.2 | 36.3 |
| Fayette | 33.5 | -- | 0.8 | 0.1 | 0.4 | -- | 16.7 | 1.3 | 14.2 |
| Franklin | 80.4 | -- | 1.8 | 0.2 | 0.6 | -- | 38.6 | 3.6 | 35.6 |
| Jefferson | 78.3 | -- | 2.0 | 0.1 | 0.1 | -- | 36.3 | 2.8 | 37.0 |
| Jennings | 87.6 | -- | 1.6 | 6.9 | 0.6 | -- | 38.1 | 5.0 | 35.4 |
| Ohio | 27.9 | -- | 0.7 | -- | 0.2 | -- | 14.3 | 1.5 | 11.2 |
| Ripley | 75.7 | -- | 2.0 | -- | 0.1 | -- | 33.1 | 2.5 | 38.0 |
| Switzerland | 75.2 | -- | 1.8 | -- | 0.1 | -- | 37.6 | 3.6 | 32.1 |
| Union | 21.4 | -- | 0.6 | -- | 0.1 | -- | 10.0 | 1.0 | 9.7 |
| Total | 571.1 | -- | 13.5 | 7.6 | 2.7 | -- | 271.3 | 26.5 | 249.5 |

(Table 11 continued on next page)

(Table 11 continued)

| Unit and county | All owners | Ownership class: National forest | Misc. federal | State | County & municipal | Forest industry | Farmer | Misc. private-corp. | Misc. private-indiv. |
|---|---|---|---|---|---|---|---|---|---|
| Northern Unit | | | | | | | | | |
| Adams | 14.1 | -- | 0.3 | -- | 0.1 | 0.1 | 7.9 | 1.3 | 4.4 |
| Allen | 29.8 | -- | 0.4 | -- | 0.3 | 0.2 | 15.0 | 3.1 | 10.8 |
| Bartholomew | 44.8 | -- | 1.0 | 0.1 | 0.4 | 0.1 | 24.8 | 4.5 | 13.9 |
| Benton | 1.5 | -- | 0.0 | -- | -- | -- | 0.8 | 0.2 | 0.5 |
| Blackford | 9.4 | -- | 0.2 | -- | 0.1 | -- | 5.3 | 0.9 | 2.9 |
| Boone | 15.2 | -- | 0.4 | -- | 0.1 | -- | 8.1 | 1.6 | 5.0 |
| Carroll | 18.4 | -- | 0.3 | 0.1 | 0.2 | -- | 10.0 | 1.7 | 6.1 |
| Cass | 24.2 | -- | 0.5 | -- | 0.3 | 0.2 | 13.6 | 2.0 | 7.6 |
| Clinton | 9.2 | -- | 0.2 | -- | 0.1 | -- | 5.0 | 0.9 | 3.0 |
| Decatur | 24.1 | -- | 0.5 | -- | 0.2 | -- | 13.5 | 2.3 | 7.6 |
| De Kalb | 27.3 | -- | 0.9 | -- | 0.3 | 0.3 | 15.3 | 2.2 | 8.3 |
| Delaware | 15.8 | -- | 0.4 | -- | 0.2 | -- | 8.3 | 1.6 | 5.3 |
| Elkhart | 29.1 | -- | 0.6 | -- | 0.3 | -- | 16.4 | 2.4 | 9.4 |
| Fountain | 36.6 | -- | 1.0 | -- | 0.4 | -- | 21.2 | 2.9 | 11.1 |
| Fulton | 20.4 | -- | 0.5 | 0.1 | 0.2 | 0.3 | 11.1 | 1.8 | 6.4 |
| Grant | 18.2 | -- | 0.4 | -- | 0.2 | -- | 10.3 | 1.6 | 5.7 |
| Hamilton | 20.0 | -- | 0.5 | -- | 0.3 | -- | 11.0 | 1.7 | 6.5 |
| Hancock | 11.8 | -- | 0.3 | -- | 0.2 | -- | 6.6 | 0.9 | 3.8 |
| Hendricks | 17.7 | -- | 0.4 | -- | 0.2 | -- | 9.5 | 1.8 | 5.8 |
| Henry | 20.6 | -- | 0.6 | 0.3 | 0.3 | 0.1 | 10.6 | 1.9 | 6.8 |
| Howard | 8.6 | -- | 0.1 | -- | 0.1 | -- | 4.0 | 1.1 | 3.3 |
| Huntington | 22.9 | -- | 0.5 | 0.1 | 0.2 | -- | 13.0 | 2.0 | 7.1 |
| Jasper | 27.0 | -- | 0.6 | 1.4 | 0.3 | -- | 13.5 | 2.5 | 8.7 |
| Jay | 24.0 | -- | 0.5 | -- | 0.1 | -- | 13.8 | 2.3 | 7.3 |
| Johnson | 20.1 | -- | 0.4 | 0.5 | 0.2 | -- | 10.4 | 2.0 | 6.6 |
| Kosciusko | 33.0 | -- | 0.6 | 0.6 | 0.2 | 0.4 | 17.9 | 3.2 | 10.1 |
| La Grange | 35.9 | -- | 1.9 | 0.7 | 0.5 | -- | 18.1 | 3.5 | 11.2 |
| Lake | 17.8 | -- | 0.5 | 0.1 | 0.2 | -- | 9.8 | 1.6 | 5.6 |
| La Porte | 41.4 | -- | 1.1 | 1.0 | 0.4 | 0.1 | 21.9 | 3.8 | 13.1 |
| Madison | 13.0 | -- | 0.2 | -- | 0.1 | -- | 7.4 | 1.2 | 4.1 |
| Marion | 0.9 | -- | 0.0 | -- | -- | -- | 0.3 | 0.1 | 0.5 |
| Marshall | 31.0 | -- | 0.9 | 0.1 | 0.2 | 0.2 | 17.2 | 2.8 | 9.6 |
| Miami | 25.4 | -- | 0.5 | 0.1 | 0.2 | 0.2 | 14.2 | 2.4 | 7.8 |
| Montgomery | 24.0 | -- | 0.5 | -- | 0.3 | -- | 13.0 | 2.1 | 8.1 |
| Newton | 17.9 | -- | 0.4 | 2.0 | 0.2 | -- | 8.3 | 1.6 | 5.4 |
| Noble | 32.3 | -- | 0.9 | 0.3 | 0.3 | 0.1 | 17.2 | 3.0 | 10.5 |
| Porter | 30.6 | -- | 1.0 | 0.1 | 0.5 | -- | 16.1 | 2.8 | 10.1 |
| Pulaski | 27.0 | -- | 0.6 | 1.2 | 0.3 | 0.1 | 13.9 | 2.3 | 8.6 |
| Randolph | 19.7 | -- | 0.4 | -- | 0.1 | 0.2 | 10.8 | 1.8 | 6.4 |
| Rush | 12.4 | -- | 0.2 | -- | 0.2 | -- | 6.1 | 1.3 | 4.6 |
| St. Joseph | 22.5 | -- | 0.6 | -- | 0.3 | -- | 12.5 | 1.9 | 7.2 |
| Shelby | 12.5 | -- | 0.3 | -- | 0.1 | -- | 7.0 | 1.2 | 3.9 |
| Starke | 26.9 | -- | 0.5 | 1.0 | 0.3 | -- | 14.2 | 2.2 | 8.7 |
| Steuben | 31.5 | -- | 0.9 | 0.9 | 0.4 | 0.2 | 15.8 | 3.0 | 10.3 |
| Tippecanoe | 22.6 | -- | 0.5 | -- | 0.3 | -- | 12.3 | 1.9 | 7.6 |
| Tipton | 4.7 | -- | 0.1 | -- | 0.1 | -- | 2.1 | 0.5 | 1.9 |
| Wabash | 24.0 | -- | 0.8 | 0.3 | 0.3 | -- | 12.3 | 2.3 | 8.0 |
| Warren | 23.8 | -- | 0.5 | -- | 0.2 | -- | 13.2 | 2.2 | 7.7 |
| Wayne | 31.9 | -- | 1.0 | -- | 0.4 | -- | 17.7 | 2.8 | 10.0 |
| Wells | 16.2 | -- | 0.4 | -- | 0.2 | -- | 8.9 | 1.5 | 5.2 |
| White | 13.0 | -- | 0.5 | -- | 0.2 | -- | 6.8 | 1.2 | 4.3 |
| Whitley | 20.5 | -- | 0.6 | -- | 0.2 | -- | 11.6 | 1.7 | 6.4 |
| Total | 1,123.2 | -- | 27.9 | 11.0 | 12.0 | 2.8 | 605.6 | 103.1 | 360.8 |
| All counties | 4,295.8 | 166.0 | 162.6 | 177.4 | 28.9 | 18.4 | 1,703.9 | 407.1 | 1,631.5 |

Table 12.--Area of timberland by county and forest type, Indiana, 1986

(In thousand acres)

| Unit and County | All types | Forest type | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jack-red-white pine | Shortleaf pine | Scotch-Virginia pine | Oak-pine | Oak-hickory | Chestnut-scarlet oak | Sassafras-persimmon | Oak-gum | Lowland oak | Elm-ash-soft maple | Cotton-wood | Maple-beech | Cherry-ash-yellow-poplar | Non-stocked |
| Lower Wabash Unit | | | | | | | | | | | | | | | |
| Clay | 44.3 | 1.2 | 0.2 | 1.3 | 0.1 | 14.1 | -- | 0.1 | 0.7 | 0.6 | 11.3 | 0.4 | 7.7 | 6.5 | 0.1 |
| Daviess | 41.6 | 0.4 | 0.3 | 1.1 | 0.1 | 14.5 | -- | 0.4 | 0.4 | 0.4 | 11.1 | 0.4 | 7.3 | 5.0 | 0.2 |
| Gibson | 42.0 | 0.5 | 0.2 | 1.3 | 0.2 | 13.9 | -- | 0.4 | 0.4 | 0.5 | 11.2 | 0.5 | 7.0 | 5.7 | 0.2 |
| Greene | 105.3 | 2.3 | 0.5 | 2.8 | 0.4 | 33.9 | -- | 1.3 | 1.6 | 0.9 | 28.4 | 1.4 | 18.7 | 12.9 | 0.2 |
| Knox | 30.8 | 0.1 | 0.1 | 0.8 | -- | 10.4 | -- | 0.2 | -- | 0.4 | 7.9 | 0.1 | 5.5 | 5.1 | 0.2 |
| Martin | 128.4 | 0.1 | 0.6 | 0.6 | -- | 50.1 | -- | 0.9 | 0.6 | 1.0 | 31.4 | 0.1 | 27.4 | 15.5 | 0.1 |
| Parke | 87.6 | 1.6 | 0.3 | 1.9 | 0.5 | 30.0 | -- | 0.5 | 1.2 | 0.8 | 23.0 | 1.3 | 14.8 | 11.6 | 0.1 |
| Pike | 83.9 | 1.2 | 0.5 | 1.8 | 0.4 | 28.1 | -- | 1.0 | 1.0 | 0.7 | 22.9 | 1.0 | 15.1 | 10.1 | 0.1 |
| Posey | 45.1 | 0.4 | -- | 0.8 | 0.1 | 16.5 | -- | 0.2 | 0.4 | 0.5 | 11.4 | 0.3 | 8.3 | 6.0 | 0.2 |
| Putnam | 76.5 | 0.1 | -- | 0.8 | -- | 26.6 | -- | 0.2 | 0.1 | 1.0 | 18.8 | -- | 15.6 | 13.1 | 0.2 |
| Sullivan | 64.7 | 1.1 | 0.2 | 1.4 | 0.2 | 22.0 | -- | 1.0 | 0.9 | 0.5 | 17.7 | 0.6 | 11.5 | 7.4 | 0.2 |
| Vanderburgh | 24.7 | 0.2 | 0.1 | 0.6 | 0.1 | 8.1 | -- | 0.1 | 0.1 | 0.3 | 6.1 | 0.1 | 4.6 | 4.2 | 0.1 |
| Vermillion | 34.7 | 0.2 | 0.1 | 0.6 | -- | 11.9 | -- | 0.6 | 0.2 | 0.2 | 9.3 | 0.1 | 6.9 | 4.5 | 0.1 |
| Vigo | 50.8 | 0.5 | 0.6 | 1.5 | 0.2 | 16.0 | -- | 0.5 | 0.5 | 0.5 | 13.9 | 0.4 | 9.0 | 7.1 | 0.1 |
| Total | 860.4 | 9.9 | 3.7 | 17.3 | 2.3 | 296.1 | -- | 7.4 | 8.1 | 8.3 | 224.4 | 6.7 | 159.4 | 114.7 | 2.1 |
| Knobs Unit | | | | | | | | | | | | | | | |
| Brown | 131.6 | 2.0 | 2.3 | 3.0 | 4.3 | 53.9 | 4.6 | 0.5 | 1.6 | 0.1 | 13.7 | 0.1 | 30.8 | 14.4 | 0.3 |
| Clark | 84.9 | 1.7 | 1.0 | 2.9 | 3.3 | 30.9 | 1.9 | 0.7 | 1.4 | 0.2 | 11.2 | 0.1 | 19.1 | 10.0 | 0.5 |
| Crawford | 119.3 | 4.4 | 1.7 | 1.4 | 3.1 | 50.2 | 2.6 | 0.4 | 1.7 | 0.2 | 12.8 | 0.2 | 26.4 | 13.7 | 0.5 |
| Dubois | 93.0 | 1.0 | 0.3 | 3.5 | 3.1 | 34.6 | 1.8 | 0.9 | 1.2 | -- | 10.7 | -- | 25.3 | 10.2 | 0.4 |
| Floyd | 34.5 | 0.2 | 0.1 | 0.8 | 1.2 | 12.7 | 0.2 | 0.1 | 0.3 | -- | 4.1 | -- | 10.7 | 3.9 | 0.2 |
| Harrison | 132.1 | 1.9 | 0.5 | 4.9 | 4.7 | 50.0 | 3.4 | 1.0 | 2.5 | 0.4 | 16.9 | 0.7 | 28.3 | 16.3 | 0.6 |
| Jackson | 120.6 | 2.1 | 1.4 | 2.9 | 2.9 | 50.3 | 4.5 | 1.4 | 2.2 | 0.2 | 14.5 | 0.8 | 21.9 | 14.9 | 0.6 |
| Lawrence | 125.3 | 1.3 | 0.3 | 2.2 | 3.0 | 54.4 | 3.0 | 1.0 | 1.2 | -- | 11.6 | 0.2 | 32.5 | 14.1 | 0.5 |
| Monroe | 117.5 | 1.0 | 0.6 | 2.6 | 2.8 | 48.4 | 2.9 | 0.9 | 1.5 | -- | 12.8 | 0.2 | 30.2 | 13.2 | 0.4 |
| Morgan | 86.7 | 1.3 | 0.2 | 2.0 | 2.7 | 32.8 | 2.2 | 0.6 | 1.7 | 0.3 | 12.2 | 0.2 | 18.8 | 10.9 | 0.8 |
| Orange | 129.1 | 3.3 | 2.5 | 1.8 | 4.1 | 54.7 | 2.8 | 0.7 | 2.1 | 0.3 | 13.5 | 0.5 | 25.6 | 15.7 | 1.5 |
| Owen | 107.5 | 0.7 | 0.1 | 3.0 | 4.0 | 38.6 | 0.9 | 0.5 | 1.6 | -- | 14.2 | -- | 31.4 | 12.1 | 0.4 |
| Perry | 152.5 | 4.9 | 7.8 | 1.9 | 4.7 | 70.5 | 4.3 | 0.6 | 1.5 | 0.2 | 12.5 | 0.2 | 25.7 | 16.9 | 0.8 |
| Scott | 43.0 | 0.6 | 0.2 | 1.6 | 1.3 | 15.7 | 1.0 | 0.4 | 0.7 | -- | 5.8 | 0.2 | 9.7 | 5.4 | 0.4 |
| Spencer | 62.5 | 0.8 | 0.1 | 2.9 | 1.8 | 22.4 | 1.3 | 0.9 | 1.2 | -- | 8.5 | 0.3 | 13.8 | 7.8 | 0.7 |
| Warrick | 81.4 | 1.2 | 0.5 | 3.2 | 2.6 | 27.1 | 1.6 | 1.0 | 1.9 | 0.2 | 13.2 | 0.7 | 16.8 | 10.8 | 0.6 |
| Washington | 119.6 | 1.4 | 0.6 | 5.1 | 4.6 | 42.0 | 0.7 | 0.8 | 1.3 | -- | 14.4 | -- | 35.2 | 13.0 | 0.5 |
| Total | 1,741.1 | 29.8 | 20.2 | 45.7 | 54.2 | 689.2 | 39.7 | 12.4 | 25.6 | 2.1 | 202.6 | 4.4 | 402.2 | 203.3 | 9.7 |
| Upland Flats Unit | | | | | | | | | | | | | | | |
| Dearborn | 91.1 | -- | -- | 0.6 | 6.6 | 18.4 | -- | -- | 2.5 | -- | 16.5 | -- | 21.3 | 24.3 | 0.9 |
| Fayette | 33.5 | -- | -- | -- | 2.1 | 5.4 | -- | -- | 1.6 | -- | 4.7 | -- | 9.3 | 9.7 | 0.7 |
| Franklin | 80.4 | -- | -- | 0.3 | 6.9 | 15.1 | -- | -- | 2.6 | -- | 9.9 | -- | 20.6 | 23.9 | 1.1 |
| Jefferson | 78.3 | 2.4 | -- | 0.1 | 9.4 | 16.7 | -- | -- | 1.1 | -- | 9.4 | -- | 20.0 | 18.4 | 0.8 |
| Jennings | 87.6 | -- | -- | 0.6 | 5.8 | 16.7 | -- | -- | 2.9 | -- | 15.6 | -- | 21.7 | 23.2 | 1.1 |
| Ohio | 27.9 | -- | -- | 0.2 | 2.1 | 5.6 | -- | -- | 0.7 | -- | 4.6 | -- | 6.7 | 7.7 | 0.3 |
| Ripley | 75.7 | 1.4 | -- | 0.1 | 7.8 | 16.3 | -- | -- | 1.1 | -- | 8.8 | -- | 20.0 | 19.2 | 1.0 |
| Switzerland | 75.2 | -- | -- | -- | 3.2 | 18.2 | -- | -- | 1.1 | -- | 13.7 | -- | 20.3 | 18.4 | 0.3 |
| Union | 21.4 | -- | -- | 0.1 | 1.7 | 3.7 | -- | -- | 0.8 | -- | 3.5 | -- | 5.3 | 6.0 | 0.3 |
| Total | 571.1 | 3.8 | -- | 2.0 | 45.6 | 116.1 | -- | -- | 14.4 | -- | 86.7 | -- | 145.2 | 150.8 | 6.5 |

(Table 12 continued on next page)

(Table 12 continued)

| Unit and County | All types | Forest type | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jack-red-white pine | Shortleaf pine | Scotch-Virginia pine | Oak-pine | Oak-hickory | Chestnut-scarlet oak | Sassafras-persimmon | Oak-gum | Lowland oak | Elm-ash-soft maple | Cotton-wood | Maple-beech | Cherry-ash-yellow-poplar | Non-stocked |
| Northern Unit | | | | | | | | | | | | | | | |
| Adams | 14.1 | 0.1 | -- | 0.1 | -- | 3.5 | 0.1 | -- | 0.1 | 0.3 | 3.8 | 0.1 | 3.5 | 2.2 | 0.3 |
| Allen | 29.8 | 0.4 | -- | 0.1 | 0.2 | 5.7 | 0.2 | -- | -- | 0.4 | 8.7 | 0.3 | 6.7 | 6.6 | 0.5 |
| Bartholomew | 44.8 | 0.3 | -- | 0.1 | 0.1 | 11.0 | 0.3 | -- | 0.2 | 1.0 | 11.8 | 0.3 | 11.9 | 6.9 | 0.9 |
| Benton | 1.5 | -- | -- | -- | -- | 0.4 | -- | -- | -- | -- | 0.4 | -- | 0.4 | 0.3 | -- |
| Blackford | 9.4 | -- | -- | -- | -- | 2.5 | -- | -- | -- | 0.3 | 2.2 | 0.1 | 2.7 | 1.4 | 0.2 |
| Boone | 15.2 | -- | -- | -- | -- | 3.6 | 0.1 | -- | 0.1 | 0.4 | 3.7 | 0.1 | 4.2 | 2.5 | 0.5 |
| Carroll | 18.4 | 0.1 | -- | 0.1 | -- | 4.6 | 0.1 | -- | 0.1 | 0.5 | 4.6 | 0.1 | 4.8 | 3.0 | 0.4 |
| Cass | 24.2 | 0.4 | -- | 0.2 | -- | 5.9 | 0.2 | -- | -- | 0.3 | 7.4 | 0.1 | 5.5 | 3.8 | 0.4 |
| Clinton | 9.2 | -- | -- | -- | -- | 2.3 | 0.1 | -- | -- | 0.2 | 2.1 | 0.1 | 2.7 | 1.5 | 0.2 |
| Decatur | 24.1 | 0.1 | -- | -- | -- | 6.2 | 0.1 | -- | 0.1 | 0.7 | 5.7 | 0.2 | 6.8 | 3.7 | 0.5 |
| De Kalb | 27.3 | 0.4 | -- | 0.2 | -- | 6.7 | 0.1 | -- | -- | 0.3 | 8.8 | 0.2 | 6.1 | 4.0 | 0.5 |
| Delaware | 15.8 | 0.2 | -- | 0.1 | 0.1 | 3.4 | 0.1 | -- | -- | 0.2 | 4.6 | 0.1 | 3.9 | 2.9 | 0.2 |
| Elkhart | 29.1 | 0.3 | -- | 0.1 | -- | 6.9 | 0.3 | -- | 0.2 | 0.6 | 8.3 | 0.2 | 6.6 | 4.6 | 1.0 |
| Fountain | 36.6 | 0.5 | -- | 0.3 | -- | 9.2 | 0.2 | -- | 0.1 | 0.6 | 11.0 | 0.2 | 8.4 | 5.5 | 0.6 |
| Fulton | 20.4 | 0.3 | -- | 0.1 | -- | 4.9 | 0.1 | -- | -- | 0.3 | 6.3 | 0.1 | 4.7 | 3.3 | 0.3 |
| Grant | 18.2 | 0.1 | -- | 0.1 | -- | 4.8 | 0.1 | -- | 0.1 | 0.4 | 4.4 | 0.1 | 4.9 | 2.8 | 0.4 |
| Hamilton | 20.0 | 0.2 | -- | 0.1 | -- | 4.9 | 0.2 | -- | 0.1 | 0.4 | 5.7 | 0.1 | 4.8 | 3.0 | 0.5 |
| Hancock | 11.8 | 0.2 | -- | 0.1 | -- | 3.0 | -- | -- | -- | 0.1 | 3.5 | 0.1 | 2.8 | 1.9 | 0.1 |
| Hendricks | 17.7 | 0.2 | -- | 0.1 | -- | 4.1 | 0.1 | -- | 0.1 | 0.3 | 4.9 | 0.1 | 4.5 | 2.9 | 0.4 |
| Henry | 20.6 | 0.2 | -- | 0.1 | -- | 5.0 | 0.1 | -- | 0.1 | 0.4 | 5.7 | 0.1 | 5.3 | 3.2 | 0.4 |
| Howard | 8.6 | -- | -- | -- | 0.1 | 1.5 | -- | -- | -- | 0.1 | 2.3 | 0.1 | 2.2 | 2.1 | 0.2 |
| Huntington | 22.9 | 0.3 | -- | 0.2 | 0.1 | 4.8 | 0.1 | -- | -- | 0.2 | 7.4 | 0.2 | 5.4 | 3.9 | 0.3 |
| Jasper | 27.0 | 0.3 | -- | 0.1 | 0.1 | 6.2 | 0.3 | -- | 0.2 | 0.5 | 7.7 | 0.2 | 6.3 | 4.4 | 0.7 |
| Jay | 24.0 | 0.1 | -- | -- | -- | 6.3 | 0.1 | -- | 0.1 | 0.7 | 5.8 | 0.1 | 6.8 | 3.5 | 0.5 |
| Johnson | 20.1 | 0.1 | -- | -- | -- | 5.1 | 0.1 | -- | 0.1 | 0.6 | 4.8 | 0.1 | 5.7 | 3.1 | 0.4 |
| Kosciusko | 33.0 | 0.2 | -- | 0.1 | 0.1 | 8.5 | 0.2 | -- | 0.1 | 0.9 | 8.0 | 0.2 | 9.1 | 5.0 | 0.6 |
| La Grange | 35.9 | 0.4 | -- | 0.2 | -- | 8.1 | 0.2 | -- | 0.1 | 0.4 | 12.0 | 0.2 | 8.6 | 4.8 | 0.9 |
| Lake | 17.8 | 0.2 | -- | 0.1 | 0.1 | 4.4 | 0.1 | -- | 0.1 | 0.3 | 5.0 | 0.1 | 4.5 | 2.6 | 0.3 |
| La Porte | 41.4 | 0.4 | -- | 0.1 | -- | 9.8 | 0.4 | -- | 0.3 | 0.9 | 11.9 | 0.2 | 9.8 | 6.1 | 1.5 |
| Madison | 13.0 | 0.1 | -- | -- | -- | 3.3 | 0.1 | -- | -- | 0.3 | 3.3 | 0.1 | 3.4 | 2.2 | 0.2 |
| Marion | 0.9 | -- | -- | -- | -- | 0.3 | -- | -- | -- | -- | 0.1 | -- | 0.3 | 0.2 | -- |
| Marshall | 31.0 | 0.5 | -- | 0.1 | -- | 7.3 | 0.2 | -- | 0.1 | 0.5 | 9.5 | 0.2 | 7.1 | 4.9 | 0.6 |
| Miami | 25.4 | 0.1 | -- | 0.1 | -- | 6.6 | 0.1 | -- | 0.1 | 0.7 | 6.2 | 0.2 | 7.0 | 3.8 | 0.5 |
| Montgomery | 24.0 | 0.3 | -- | 0.2 | 0.1 | 5.6 | 0.1 | -- | -- | 0.3 | 6.8 | 0.2 | 5.7 | 4.4 | 0.3 |
| Newton | 17.9 | 0.1 | -- | 0.1 | -- | 4.7 | 0.1 | -- | 0.1 | 0.4 | 4.7 | 0.1 | 4.7 | 2.7 | 0.2 |
| Noble | 32.3 | 0.4 | -- | 0.2 | 0.1 | 7.3 | 0.1 | -- | 0.1 | 0.4 | 9.8 | 0.3 | 7.5 | 5.6 | 0.5 |
| Porter | 30.6 | 0.3 | -- | 0.2 | -- | 7.4 | 0.1 | -- | 0.1 | 0.5 | 9.2 | 0.2 | 7.6 | 4.3 | 0.7 |
| Pulaski | 27.0 | 0.4 | -- | 0.2 | -- | 6.5 | 0.2 | -- | 0.1 | 0.5 | 7.8 | 0.2 | 6.2 | 4.4 | 0.5 |
| Randolph | 19.7 | -- | -- | -- | 0.1 | 5.2 | 0.1 | -- | 0.1 | 0.6 | 4.4 | 0.1 | 5.7 | 3.0 | 0.4 |
| Rush | 12.4 | 0.2 | -- | 0.1 | 0.1 | 2.5 | -- | -- | -- | 0.1 | 3.4 | 0.1 | 3.0 | 2.8 | 0.1 |
| St. Joseph | 22.5 | 0.3 | -- | 0.2 | 0.1 | 5.3 | 0.2 | -- | 0.1 | 0.4 | 6.7 | 0.1 | 5.0 | 3.4 | 0.7 |
| Shelby | 12.5 | -- | -- | -- | -- | 3.3 | -- | -- | 0.1 | 0.3 | 3.0 | 0.1 | 3.6 | 1.9 | 0.2 |
| Starke | 26.9 | 0.3 | -- | 0.1 | 0.1 | 6.7 | 0.2 | -- | 0.1 | 0.5 | 7.3 | 0.2 | 6.5 | 4.3 | 0.6 |
| Steuben | 31.5 | 0.4 | -- | 0.2 | 0.1 | 7.1 | 0.1 | -- | 0.1 | 0.4 | 9.6 | 0.2 | 7.4 | 5.4 | 0.5 |
| Tippecanoe | 22.6 | 0.3 | -- | 0.2 | 0.1 | 5.3 | 0.1 | -- | -- | 0.2 | 6.7 | 0.2 | 5.2 | 4.1 | 0.2 |
| Tipton | 4.7 | -- | -- | 0.1 | 0.1 | 1.0 | -- | -- | -- | 0.1 | 1.2 | -- | 1.2 | 1.0 | -- |
| Wabash | 24.0 | 0.2 | -- | 0.3 | 0.1 | 5.7 | 0.1 | -- | -- | 0.3 | 7.2 | 0.1 | 6.0 | 3.6 | 0.4 |
| Warren | 23.8 | 0.2 | -- | 0.1 | 0.1 | 5.8 | 0.1 | -- | 0.1 | 0.5 | 6.2 | 0.2 | 6.1 | 4.0 | 0.4 |
| Wayne | 31.9 | 0.4 | -- | 0.2 | -- | 7.7 | 0.2 | -- | 0.1 | 0.5 | 9.8 | 0.1 | 7.5 | 4.8 | 0.6 |
| Wells | 16.2 | 0.2 | -- | 0.1 | 0.1 | 3.8 | 0.1 | -- | -- | 0.2 | 4.7 | 0.1 | 4.0 | 2.7 | 0.2 |
| White | 13.0 | 0.2 | -- | 0.1 | -- | 2.8 | 0.1 | -- | -- | 0.1 | 4.2 | 0.1 | 3.0 | 2.1 | 0.3 |
| Whitley | 20.5 | 0.3 | -- | 0.1 | -- | 4.9 | 0.1 | -- | -- | 0.4 | 6.5 | 0.1 | 4.6 | 3.1 | 0.4 |
| Total | 1,123.2 | 11.2 | -- | 5.6 | 2.1 | 269.4 | 6.4 | -- | 3.6 | 20.5 | 316.8 | 7.3 | 277.9 | 180.2 | 22.2 |
| All counties | 4,295.8 | 54.7 | 23.9 | 70.6 | 104.2 | 1,370.8 | 46.1 | 19.8 | 51.7 | 30.9 | 830.5 | 18.4 | 984.7 | 649.0 | 40.5 |

Table 13.--Area of timberland by county and stand-size class, Indian, 1986

(In thousand acres)

| Unit and county | All stands | Stand-size class | | | |
|---|---|---|---|---|---|
| | | Sawtimber | Poletimber | Sapling & seedling | Nonstocked |
| Lower Wabash Unit | | | | | |
| Clay | 44.3 | 30.1 | 6.0 | 8.1 | 0.1 |
| Daviess | 41.6 | 27.2 | 5.8 | 8.4 | 0.2 |
| Gibson | 42.0 | 26.1 | 6.2 | 9.5 | 0.2 |
| Greene | 105.3 | 65.5 | 17.0 | 22.6 | 0.2 |
| Knox | 30.8 | 19.2 | 3.3 | 8.1 | 0.2 |
| Martin | 128.4 | 98.3 | 12.2 | 17.8 | 0.1 |
| Parke | 87.6 | 61.0 | 12.0 | 14.5 | 0.1 |
| Pike | 83.9 | 54.8 | 13.2 | 15.8 | 0.1 |
| Posey | 45.1 | 33.1 | 4.5 | 7.3 | 0.2 |
| Putnam | 76.5 | 56.6 | 6.2 | 13.5 | 0.2 |
| Sullivan | 64.7 | 42.0 | 9.2 | 13.3 | 0.2 |
| Vanderburgh | 24.7 | 16.2 | 3.0 | 5.4 | 0.1 |
| Vermillion | 34.7 | 21.7 | 4.6 | 8.3 | 0.1 |
| Vigo | 50.8 | 30.7 | 8.8 | 11.2 | 0.1 |
| Total | 860.4 | 582.5 | 112.0 | 163.8 | 2.1 |
| Knobs Unit | | | | | |
| Brown | 131.6 | 93.6 | 18.6 | 19.0 | 0.4 |
| Clark | 84.9 | 56.3 | 11.9 | 16.3 | 0.4 |
| Crawford | 119.3 | 76.2 | 17.6 | 24.9 | 0.6 |
| Dubois | 93.0 | 61.6 | 11.8 | 19.1 | 0.5 |
| Floyd | 34.5 | 24.7 | 3.8 | 5.9 | 0.1 |
| Harrison | 132.1 | 84.7 | 22.3 | 24.4 | 0.7 |
| Jackson | 120.6 | 75.3 | 21.4 | 23.2 | 0.7 |
| Lawrence | 125.3 | 89.4 | 15.7 | 19.7 | 0.5 |
| Monroe | 117.5 | 79.6 | 18.4 | 19.2 | 0.3 |
| Morgan | 86.7 | 54.4 | 12.3 | 19.3 | 0.7 |
| Orange | 129.1 | 86.3 | 19.2 | 22.0 | 1.6 |
| Owen | 107.5 | 71.9 | 13.4 | 21.8 | 0.4 |
| Perry | 152.5 | 101.7 | 22.9 | 27.0 | 0.9 |
| Scott | 43.0 | 27.2 | 6.4 | 9.1 | 0.3 |
| Spencer | 62.5 | 38.5 | 8.9 | 14.6 | 0.5 |
| Warrick | 81.4 | 44.9 | 14.5 | 21.3 | 0.7 |
| Washington | 119.6 | 82.4 | 14.9 | 21.9 | 0.4 |
| Total | 1,741.1 | 1,148.7 | 254.0 | 328.7 | 9.7 |
| Upland Flats Unit | | | | | |
| Dearborn | 91.1 | 43.9 | 20.7 | 25.6 | 0.9 |
| Fayette | 33.5 | 12.8 | 8.2 | 11.9 | 0.6 |
| Franklin | 80.4 | 31.7 | 18.6 | 29.0 | 1.1 |
| Jefferson | 78.3 | 45.9 | 12.9 | 18.7 | 0.8 |
| Jennings | 87.6 | 42.2 | 20.0 | 24.3 | 1.1 |
| Ohio | 27.9 | 12.8 | 6.2 | 8.6 | 0.3 |
| Ripley | 75.7 | 41.0 | 11.9 | 21.8 | 1.0 |
| Switzerland | 75.2 | 47.2 | 10.4 | 17.3 | 0.3 |
| Union | 21.4 | 7.9 | 5.0 | 8.1 | 0.4 |
| Total | 571.1 | 285.4 | 113.9 | 165.3 | 6.5 |

(Table 13 continued on next page)

(Table 13 continued)

| Unit and county | All stands | Stand-size class | | | |
|---|---|---|---|---|---|
| | | Sawtimber | Poletimber | Sapling & seedling | Nonstocked |
| Northern Unit | | | | | |
| Adams | 14.1 | 9.8 | 2.3 | 1.6 | 0.4 |
| Allen | 29.8 | 17.6 | 6.0 | 5.7 | 0.5 |
| Bartholomew | 44.8 | 32.3 | 6.5 | 5.1 | 0.9 |
| Benton | 1.5 | 1.1 | 0.3 | 0.1 | -- |
| Blackford | 9.4 | 7.2 | 1.2 | 0.8 | 0.2 |
| Boone | 15.2 | 10.6 | 2.1 | 2.1 | 0.4 |
| Carroll | 18.4 | 12.7 | 3.0 | 2.3 | 0.4 |
| Cass | 24.2 | 15.8 | 4.8 | 3.2 | 0.4 |
| Clinton | 9.2 | 6.8 | 1.2 | 1.0 | 0.2 |
| Decatur | 24.1 | 18.3 | 3.0 | 2.3 | 0.5 |
| De Kalb | 27.3 | 17.6 | 5.3 | 3.9 | 0.5 |
| Delaware | 15.8 | 10.3 | 2.9 | 2.4 | 0.2 |
| Elkhart | 29.1 | 18.1 | 5.4 | 4.6 | 1.0 |
| Fountain | 36.6 | 24.9 | 6.8 | 4.3 | 0.6 |
| Fulton | 20.4 | 13.7 | 3.7 | 2.7 | 0.3 |
| Grant | 18.2 | 13.6 | 2.7 | 1.6 | 0.3 |
| Hamilton | 20.0 | 12.9 | 3.7 | 2.9 | 0.5 |
| Hancock | 11.8 | 7.8 | 2.3 | 1.5 | 0.2 |
| Hendricks | 17.7 | 11.7 | 2.9 | 2.7 | 0.4 |
| Henry | 20.6 | 13.6 | 3.6 | 3.0 | 0.4 |
| Howard | 8.6 | 5.3 | 1.5 | 1.7 | 0.1 |
| Huntington | 22.9 | 14.3 | 4.3 | 4.0 | 0.3 |
| Jasper | 27.0 | 17.3 | 4.9 | 4.1 | 0.7 |
| Jay | 24.0 | 18.4 | 3.0 | 2.1 | 0.5 |
| Johnson | 20.1 | 14.8 | 2.7 | 2.2 | 0.4 |
| Kosciusko | 33.0 | 25.1 | 4.3 | 2.9 | 0.7 |
| La Grange | 35.9 | 21.5 | 6.2 | 7.3 | 0.9 |
| Lake | 17.8 | 12.2 | 3.1 | 2.2 | 0.3 |
| La Porte | 41.4 | 26.4 | 7.1 | 6.5 | 1.4 |
| Madison | 13.0 | 9.5 | 2.0 | 1.3 | 0.2 |
| Marion | 0.9 | 0.3 | 0.3 | 0.3 | -- |
| Marshall | 31.0 | 20.3 | 5.6 | 4.5 | 0.6 |
| Miami | 25.4 | 19.4 | 3.4 | 2.1 | 0.5 |
| Montgomery | 24.0 | 15.9 | 4.7 | 3.2 | 0.2 |
| Newton | 17.9 | 13.4 | 2.9 | 1.4 | 0.2 |
| Noble | 32.3 | 20.7 | 6.1 | 5.0 | 0.5 |
| Porter | 30.6 | 19.1 | 5.7 | 5.1 | 0.7 |
| Pulaski | 27.0 | 17.9 | 5.0 | 3.6 | 0.5 |
| Randolph | 19.7 | 15.0 | 2.5 | 1.8 | 0.4 |
| Rush | 12.4 | 7.4 | 2.5 | 2.3 | 0.2 |
| St. Joseph | 22.5 | 13.8 | 4.3 | 3.7 | 0.7 |
| Shelby | 12.5 | 9.5 | 1.7 | 1.0 | 0.3 |
| Starke | 26.9 | 18.2 | 4.7 | 3.4 | 0.6 |
| Steuben | 31.5 | 20.1 | 5.8 | 5.1 | 0.5 |
| Tippecanoe | 22.6 | 14.6 | 4.6 | 3.2 | 0.2 |
| Tipton | 4.7 | 2.8 | 1.0 | 0.9 | -- |
| Wabash | 24.0 | 15.0 | 4.6 | 4.0 | 0.4 |
| Warren | 23.8 | 16.6 | 3.9 | 2.9 | 0.4 |
| Wayne | 31.9 | 20.6 | 5.9 | 4.8 | 0.6 |
| Wells | 16.2 | 10.9 | 3.0 | 2.1 | 0.2 |
| White | 13.0 | 7.7 | 2.6 | 2.4 | 0.3 |
| Whitley | 20.5 | 13.0 | 4.0 | 3.1 | 0.4 |
| Total | 1,123.2 | 753.4 | 193.6 | 154.0 | 22.2 |
| All counties | 4,295.8 | 2,770.0 | 673.5 | 811.8 | 40.5 |

Table 14.--Area of timberland by county and site class, Indiana, 1986

(In thousand acres)

| Unit and county | All classes | Site class (cubic feet of growth per acre per year) 165+ | 120-164 | 85-119 | 50-84 | 20-49 |
|---|---|---|---|---|---|---|
| Lower Wabash Unit | | | | | | |
| Clay | 44.3 | -- | 8.6 | 13.4 | 15.6 | 6.7 |
| Daviess | 41.6 | -- | 6.2 | 14.1 | 15.6 | 5.7 |
| Gibson | 42.0 | -- | 6.8 | 13.7 | 15.2 | 6.3 |
| Greene | 105.3 | -- | 18.1 | 36.2 | 36.1 | 14.9 |
| Knox | 30.8 | -- | 5.1 | 8.7 | 11.9 | 5.1 |
| Martin | 128.4 | -- | 17.0 | 44.8 | 53.0 | 13.6 |
| Parke | 87.6 | -- | 15.7 | 29.7 | 31.2 | 11.0 |
| Pike | 83.9 | -- | 13.6 | 30.2 | 29.6 | 10.5 |
| Posey | 45.1 | -- | 7.2 | 14.7 | 17.4 | 5.8 |
| Putnam | 76.5 | -- | 14.1 | 22.3 | 29.4 | 10.7 |
| Sullivan | 64.7 | -- | 10.0 | 23.0 | 23.1 | 8.6 |
| Vanderburgh | 24.7 | -- | 4.8 | 7.3 | 9.0 | 3.6 |
| Vermillion | 34.7 | -- | 5.4 | 11.8 | 12.7 | 4.8 |
| Vigo | 50.8 | -- | 8.4 | 17.3 | 17.8 | 7.3 |
| Total | 860.4 | -- | 141.0 | 287.2 | 317.6 | 114.6 |
| Knobs Unit | | | | | | |
| Brown | 131.6 | -- | 21.7 | 43.3 | 46.2 | 20.4 |
| Clark | 84.9 | -- | 15.4 | 26.7 | 29.4 | 13.4 |
| Crawford | 119.3 | -- | 20.7 | 36.7 | 39.4 | 22.5 |
| Dubois | 93.0 | -- | 16.2 | 32.3 | 31.1 | 13.4 |
| Floyd | 34.5 | -- | 6.4 | 14.0 | 10.5 | 3.6 |
| Harrison | 132.1 | -- | 21.3 | 41.8 | 45.7 | 23.3 |
| Jackson | 120.6 | -- | 17.2 | 36.2 | 44.5 | 22.7 |
| Lawrence | 125.3 | -- | 20.6 | 41.7 | 43.1 | 19.9 |
| Monroe | 117.5 | -- | 18.8 | 40.1 | 39.7 | 18.9 |
| Morgan | 86.7 | -- | 13.5 | 26.2 | 30.9 | 16.1 |
| Orange | 129.1 | -- | 20.2 | 39.8 | 44.8 | 24.3 |
| Owen | 107.5 | -- | 18.2 | 40.8 | 35.9 | 12.6 |
| Perry | 152.5 | -- | 24.0 | 47.5 | 52.4 | 28.6 |
| Scott | 43.0 | -- | 7.2 | 13.3 | 15.0 | 7.5 |
| Spencer | 62.5 | -- | 9.8 | 18.5 | 23.3 | 10.9 |
| Warrick | 81.4 | -- | 13.1 | 24.8 | 28.8 | 14.7 |
| Washington | 119.6 | -- | 22.3 | 48.2 | 37.1 | 12.0 |
| Total | 1,741.1 | -- | 286.6 | 571.9 | 597.8 | 284.8 |
| Upland Flats Unit | | | | | | |
| Dearborn | 91.1 | -- | 15.0 | 31.1 | 23.6 | 21.4 |
| Fayette | 33.5 | -- | 5.6 | 11.9 | 8.3 | 7.7 |
| Franklin | 80.4 | -- | 12.0 | 28.8 | 21.0 | 18.6 |
| Jefferson | 78.3 | -- | 18.2 | 29.6 | 18.7 | 11.8 |
| Jennings | 87.6 | -- | 15.1 | 31.0 | 21.3 | 20.2 |
| Ohio | 27.9 | -- | 4.5 | 9.6 | 7.3 | 6.5 |
| Ripley | 75.7 | -- | 16.5 | 27.8 | 19.6 | 11.8 |
| Switzerland | 75.2 | -- | 16.4 | 27.3 | 18.5 | 13.0 |
| Union | 21.4 | -- | 3.2 | 7.0 | 5.9 | 5.3 |
| Total | 571.1 | -- | 106.5 | 204.1 | 144.2 | 116.3 |

(Table 14 continued on next page)

(Table 14 continued)

| Unit and county | All classes | Site class (cubic feet of growth per acre per year) 165+ | 120-164 | 85-119 | 50-84 | 20-49 |
|---|---|---|---|---|---|---|
| Northern Unit | | | | | | |
| Adams | 14.1 | -- | 2.1 | 5.4 | 4.3 | 2.3 |
| Allen | 29.8 | -- | 3.9 | 12.5 | 8.2 | 5.2 |
| Bartholomew | 44.8 | -- | 6.6 | 17.2 | 13.9 | 7.1 |
| Benton | 1.5 | -- | 0.3 | 0.5 | 0.5 | 0.2 |
| Blackford | 9.4 | -- | 1.5 | 3.4 | 3.1 | 1.4 |
| Boone | 15.2 | -- | 2.3 | 5.6 | 4.8 | 2.5 |
| Carroll | 18.4 | -- | 2.8 | 6.9 | 5.7 | 3.0 |
| Cass | 24.2 | -- | 3.3 | 9.9 | 7.0 | 4.0 |
| Clinton | 9.2 | -- | 1.4 | 3.4 | 3.0 | 1.4 |
| Decatur | 24.1 | -- | 3.9 | 8.9 | 7.6 | 3.7 |
| De Kalb | 27.3 | -- | 3.8 | 10.6 | 8.1 | 4.8 |
| Delaware | 15.8 | -- | 2.3 | 6.2 | 4.6 | 2.7 |
| Elkhart | 29.1 | -- | 3.8 | 11.3 | 8.7 | 5.3 |
| Fountain | 36.6 | -- | 5.3 | 14.5 | 10.8 | 6.0 |
| Fulton | 20.4 | -- | 2.9 | 8.1 | 6.0 | 3.4 |
| Grant | 18.2 | -- | 3.1 | 6.8 | 5.6 | 2.7 |
| Hamilton | 20.0 | -- | 2.9 | 7.6 | 6.0 | 3.5 |
| Hancock | 11.8 | -- | 1.8 | 4.6 | 3.5 | 1.9 |
| Hendricks | 17.7 | -- | 2.4 | 6.9 | 5.4 | 3.0 |
| Henry | 20.6 | -- | 2.9 | 7.8 | 6.5 | 3.4 |
| Howard | 8.6 | -- | 1.3 | 3.4 | 2.4 | 1.5 |
| Huntington | 22.9 | -- | 3.1 | 9.3 | 6.7 | 3.8 |
| Jasper | 27.0 | -- | 3.6 | 10.7 | 8.0 | 4.7 |
| Jay | 24.0 | -- | 3.7 | 8.9 | 7.7 | 3.7 |
| Johnson | 20.1 | -- | 3.0 | 7.5 | 6.5 | 3.1 |
| Kosciusko | 33.0 | -- | 5.2 | 12.4 | 10.4 | 5.0 |
| La Grange | 35.9 | -- | 4.2 | 12.9 | 11.8 | 7.0 |
| Lake | 17.8 | -- | 2.7 | 6.8 | 5.4 | 2.9 |
| La Porte | 41.4 | -- | 5.5 | 15.6 | 12.8 | 7.5 |
| Madison | 13.0 | -- | 2.0 | 5.1 | 3.9 | 2.0 |
| Marion | 0.9 | -- | 0.1 | 0.3 | 0.4 | 0.1 |
| Marshall | 31.0 | -- | 4.0 | 12.4 | 9.3 | 5.3 |
| Miami | 25.4 | -- | 4.2 | 9.5 | 7.9 | 3.8 |
| Montgomery | 24.0 | -- | 3.8 | 9.5 | 6.8 | 3.9 |
| Newton | 17.9 | -- | 3.1 | 6.8 | 5.3 | 2.7 |
| Noble | 32.3 | -- | 4.5 | 12.8 | 9.4 | 5.6 |
| Porter | 30.6 | -- | 4.2 | 11.4 | 9.7 | 5.3 |
| Pulaski | 27.0 | -- | 3.9 | 10.7 | 7.8 | 4.6 |
| Randolph | 19.7 | -- | 3.1 | 7.2 | 6.4 | 3.0 |
| Rush | 12.4 | -- | 1.7 | 5.1 | 3.5 | 2.1 |
| St. Joseph | 22.5 | -- | 3.0 | 8.7 | 6.7 | 4.1 |
| Shelby | 12.5 | -- | 2.1 | 4.6 | 3.9 | 1.9 |
| Starke | 26.9 | -- | 3.9 | 10.5 | 8.1 | 4.4 |
| Steuben | 31.5 | -- | 4.4 | 12.1 | 9.4 | 5.6 |
| Tippecanoe | 22.6 | -- | 3.4 | 9.1 | 6.4 | 3.7 |
| Tipton | 4.7 | -- | 0.7 | 1.8 | 1.4 | 0.8 |
| Wabash | 24.0 | -- | 3.3 | 9.0 | 7.6 | 4.1 |
| Warren | 23.8 | -- | 3.6 | 9.1 | 7.2 | 3.9 |
| Wayne | 31.9 | -- | 4.1 | 12.6 | 9.8 | 5.4 |
| Wells | 16.2 | -- | 2.6 | 6.3 | 4.6 | 2.7 |
| White | 13.0 | -- | 1.7 | 4.9 | 4.0 | 2.4 |
| Whitley | 20.5 | -- | 2.6 | 8.2 | 6.2 | 3.5 |
| Total | 1,123.2 | -- | 161.6 | 433.3 | 340.7 | 187.6 |
| All counties | 4,295.8 | -- | 695.7 | 1,496.5 | 1,400.3 | 703.3 |

Table 15.--Area of timberland by county and stocking class of growing-stock trees, Indiana, 1986

(In thousand acres)

| Unit and county | All classes | Stocking percent of growing-stock trees | | | | |
|---|---|---|---|---|---|---|
| | | Less than 16.7 | 16.7-59.9 | 60.0-99.9 | 100.0-129.9 | 130.0+ |
| Lower Wabash Unit | | | | | | |
| Clay | 44.3 | 0.1 | 4.2 | 23.2 | 15.2 | 1.6 |
| Daviess | 41.6 | 0.2 | 3.3 | 20.3 | 15.3 | 2.5 |
| Gibson | 42.0 | 0.2 | 3.5 | 21.5 | 14.6 | 2.2 |
| Greene | 105.3 | 0.2 | 8.2 | 54.3 | 37.2 | 5.4 |
| Knox | 30.8 | 0.2 | 3.4 | 16.2 | 9.5 | 1.5 |
| Martin | 128.4 | 0.1 | 9.0 | 59.1 | 53.9 | 6.3 |
| Parke | 87.6 | 0.1 | 5.3 | 44.5 | 34.0 | 3.7 |
| Pike | 83.9 | 0.1 | 4.9 | 42.0 | 32.8 | 4.1 |
| Posey | 45.1 | 0.2 | 3.4 | 21.9 | 17.3 | 2.3 |
| Putnam | 76.5 | 0.2 | 7.1 | 39.8 | 27.4 | 2.0 |
| Sullivan | 64.7 | 0.2 | 4.1 | 32.3 | 24.6 | 3.5 |
| Vanderburgh | 24.7 | 0.1 | 2.0 | 13.6 | 8.0 | 1.0 |
| Vermillion | 34.7 | 0.1 | 2.6 | 17.9 | 12.1 | 2.0 |
| Vigo | 50.8 | 0.1 | 3.8 | 26.3 | 18.0 | 2.6 |
| Total | 860.4 | 2.1 | 64.8 | 432.9 | 319.9 | 40.7 |
| Knobs Unit | | | | | | |
| Brown | 131.6 | 0.3 | 6.1 | 53.4 | 61.4 | 10.4 |
| Clark | 84.9 | 0.4 | 5.7 | 33.7 | 37.7 | 7.4 |
| Crawford | 119.3 | 0.6 | 6.0 | 50.2 | 52.9 | 9.6 |
| Dubois | 93.0 | 0.5 | 6.2 | 37.9 | 41.5 | 6.9 |
| Floyd | 34.5 | 0.2 | 2.9 | 13.0 | 16.0 | 2.4 |
| Harrison | 132.1 | 0.6 | 8.4 | 54.6 | 60.1 | 8.4 |
| Jackson | 120.6 | 0.7 | 7.6 | 50.5 | 54.6 | 7.2 |
| Lawrence | 125.3 | 0.5 | 5.7 | 52.6 | 57.2 | 9.3 |
| Monroe | 117.5 | 0.4 | 6.5 | 49.8 | 53.2 | 7.6 |
| Morgan | 86.7 | 0.8 | 6.3 | 36.2 | 38.1 | 5.3 |
| Orange | 129.1 | 1.6 | 6.5 | 52.8 | 59.2 | 9.0 |
| Owen | 107.5 | 0.3 | 9.4 | 40.6 | 50.1 | 7.1 |
| Perry | 152.5 | 0.9 | 6.0 | 58.3 | 72.4 | 14.9 |
| Scott | 43.0 | 0.3 | 2.9 | 17.8 | 19.0 | 3.0 |
| Spencer | 62.5 | 0.5 | 4.6 | 25.7 | 27.7 | 4.0 |
| Warrick | 81.4 | 0.7 | 7.1 | 33.4 | 35.0 | 5.2 |
| Washington | 119.6 | 0.4 | 10.8 | 43.5 | 55.5 | 9.4 |
| Total | 1,741.1 | 9.7 | 108.7 | 704.0 | 791.6 | 127.1 |
| Upland Flats Unit | | | | | | |
| Dearborn | 91.1 | 0.9 | 19.6 | 42.3 | 23.4 | 4.9 |
| Fayette | 33.5 | 0.6 | 8.7 | 14.3 | 8.0 | 1.9 |
| Franklin | 80.4 | 1.2 | 19.5 | 36.4 | 18.8 | 4.5 |
| Jefferson | 78.3 | 0.8 | 13.7 | 36.9 | 23.6 | 3.3 |
| Jennings | 87.6 | 1.1 | 19.3 | 38.9 | 23.3 | 5.0 |
| Ohio | 27.9 | 0.3 | 6.2 | 12.8 | 7.0 | 1.6 |
| Ripley | 75.7 | 0.9 | 14.0 | 36.7 | 21.0 | 3.1 |
| Switzerland | 75.2 | 0.3 | 11.3 | 36.1 | 23.2 | 4.3 |
| Union | 21.4 | 0.4 | 5.3 | 9.7 | 4.9 | 1.1 |
| Total | 571.1 | 6.5 | 117.6 | 264.1 | 153.2 | 29.7 |

(Table 15 continued on next page)

(Table 15 continued)

| Unit and county | All classes | Stocking percent of growing-stock trees | | | | |
|---|---|---|---|---|---|---|
| | | Less than 16.7 | 16.7-59.9 | 60.0-99.9 | 100.0-129.9 | 130.0+ |
| Northern Unit | | | | | | |
| Adams | 14.1 | 0.3 | 2.8 | 7.0 | 3.5 | 0.5 |
| Allen | 29.8 | 0.5 | 8.3 | 14.4 | 5.7 | 0.9 |
| Bartholomew | 44.8 | 0.9 | 8.9 | 21.7 | 11.8 | 1.5 |
| Benton | 1.5 | -- | 0.3 | 0.7 | 0.4 | 0.1 |
| Blackford | 9.4 | 0.2 | 1.7 | 4.5 | 2.7 | 0.3 |
| Boone | 15.2 | 0.4 | 3.2 | 7.2 | 4.0 | 0.4 |
| Carroll | 18.4 | 0.4 | 3.8 | 8.9 | 4.7 | 0.6 |
| Cass | 24.2 | 0.4 | 5.1 | 12.3 | 5.4 | 1.0 |
| Clinton | 9.2 | 0.2 | 1.8 | 4.3 | 2.6 | 0.3 |
| Decatur | 24.1 | 0.5 | 4.3 | 11.7 | 6.8 | 0.8 |
| De Kalb | 27.3 | 0.5 | 5.5 | 14.3 | 6.0 | 1.0 |
| Delaware | 15.8 | 0.2 | 3.5 | 8.1 | 3.5 | 0.5 |
| Elkhart | 29.1 | 1.0 | 6.4 | 14.3 | 6.4 | 1.0 |
| Fountain | 36.6 | 0.6 | 7.1 | 19.0 | 8.5 | 1.4 |
| Fulton | 20.4 | 0.4 | 4.3 | 10.3 | 4.6 | 0.8 |
| Grant | 18.2 | 0.3 | 3.2 | 9.2 | 4.9 | 0.6 |
| Hamilton | 20.0 | 0.5 | 4.0 | 10.2 | 4.6 | 0.7 |
| Hancock | 11.8 | 0.1 | 2.4 | 6.1 | 2.7 | 0.5 |
| Hendricks | 17.7 | 0.4 | 4.1 | 8.3 | 4.3 | 0.6 |
| Henry | 20.6 | 0.4 | 4.4 | 10.0 | 5.1 | 0.7 |
| Howard | 8.6 | 0.1 | 2.4 | 4.2 | 1.7 | 0.2 |
| Huntington | 22.9 | 0.3 | 4.9 | 11.8 | 5.1 | 0.8 |
| Jasper | 27.0 | 0.7 | 6.1 | 13.2 | 6.1 | 0.9 |
| Jay | 24.0 | 0.5 | 4.4 | 11.5 | 6.8 | 0.8 |
| Johnson | 20.1 | 0.5 | 4.0 | 9.4 | 5.6 | 0.6 |
| Kosciusko | 33.0 | 0.6 | 6.1 | 15.9 | 9.3 | 1.1 |
| La Grange | 35.9 | 0.9 | 8.1 | 17.8 | 8.0 | 1.1 |
| Lake | 17.8 | 0.4 | 3.4 | 9.0 | 4.4 | 0.6 |
| La Porte | 41.4 | 1.4 | 8.9 | 20.1 | 9.7 | 1.3 |
| Madison | 13.0 | 0.2 | 2.5 | 6.4 | 3.4 | 0.5 |
| Marion | 0.9 | -- | 0.4 | 0.3 | 0.2 | -- |
| Marshall | 31.0 | 0.6 | 7.0 | 15.2 | 7.0 | 1.2 |
| Miami | 25.4 | 0.5 | 4.4 | 12.5 | 7.1 | 0.9 |
| Montgomery | 24.0 | 0.2 | 4.9 | 12.8 | 5.2 | 0.9 |
| Newton | 17.9 | 0.3 | 2.8 | 9.4 | 4.7 | 0.7 |
| Noble | 32.3 | 0.5 | 7.1 | 16.5 | 7.0 | 1.2 |
| Porter | 30.6 | 0.7 | 6.3 | 15.4 | 7.2 | 1.0 |
| Pulaski | 27.0 | 0.6 | 5.6 | 13.7 | 6.1 | 1.0 |
| Randolph | 19.7 | 0.4 | 3.6 | 9.4 | 5.7 | 0.6 |
| Rush | 12.4 | 0.1 | 3.5 | 5.9 | 2.5 | 0.4 |
| St. Joseph | 22.5 | 0.7 | 4.9 | 11.2 | 4.9 | 0.8 |
| Shelby | 12.5 | 0.2 | 2.2 | 6.1 | 3.6 | 0.4 |
| Starke | 26.9 | 0.6 | 5.5 | 13.3 | 6.5 | 1.0 |
| Steuben | 31.5 | 0.5 | 6.9 | 16.2 | 6.8 | 1.1 |
| Tippecanoe | 22.6 | 0.2 | 4.9 | 11.8 | 4.8 | 0.9 |
| Tipton | 4.7 | -- | 1.4 | 2.2 | 1.0 | 0.1 |
| Wabash | 24.0 | 0.4 | 5.2 | 12.0 | 5.6 | 0.8 |
| Warren | 23.8 | 0.4 | 4.9 | 11.8 | 5.9 | 0.8 |
| Wayne | 31.9 | 0.6 | 6.9 | 15.9 | 7.3 | 1.2 |
| Wells | 16.2 | 0.2 | 3.2 | 8.5 | 3.7 | 0.6 |
| White | 13.0 | 0.3 | 3.0 | 6.6 | 2.7 | 0.4 |
| Whitley | 20.5 | 0.4 | 4.5 | 10.3 | 4.5 | 0.8 |
| Total | 1,123.2 | 22.2 | 235.0 | 558.8 | 268.3 | 38.9 |
| All counties | 4,295.8 | 40.5 | 526.1 | 1,959.8 | 1,533.0 | 236.4 |

Table 16.--Area of timberland by forest type, ownership class and Forest Survey Unit, Indiana, 1986

(In thousand acres)

| Forest type | All owners | Ownership class | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | National forest | Misc. federal | State | County & municipal | Forest industry | Farmer | Misc. priv.-corp. | Misc. priv.-indiv. |
| All Units | | | | | | | | | |
| Jack-red-white pine | 54.7 | 11.5 | -- | 4.5 | -- | -- | 6.4 | 14.0 | 18.3 |
| Shortleaf pine | 23.9 | 14.8 | -- | 3.5 | -- | -- | 1.9 | 1.6 | 2.1 |
| Scotch-Virginia pine | 70.6 | -- | -- | 4.0 | -- | -- | 37.0 | 9.4 | 20.2 |
| Oak-pine | 104.2 | 3.4 | 2.5 | 1.9 | -- | -- | 50.4 | 6.3 | 39.7 |
| Oak-hickory | 1,370.8 | 99.7 | 70.0 | 92.6 | 8.3 | 12.5 | 451.4 | 111.4 | 524.9 |
| Chestnut-scarlet oak | 46.1 | 6.2 | -- | 13.9 | -- | -- | 1.2 | -- | 24.8 |
| Sassafras-persimmon | 19.8 | -- | -- | -- | -- | -- | 6.7 | 2.1 | 11.0 |
| Oak-gum | 51.7 | -- | -- | 6.6 | -- | -- | 23.0 | 6.2 | 15.9 |
| Lowland oak | 30.9 | -- | -- | -- | -- | -- | 16.2 | 4.4 | 10.3 |
| Elm-ash-soft maple | 830.5 | 2.0 | 28.4 | 17.8 | 11.5 | -- | 374.7 | 103.1 | 293.0 |
| Cottonwood | 18.4 | -- | -- | 2.1 | 2.3 | -- | 2.8 | 8.8 | 2.4 |
| Maple-beech | 984.7 | 10.7 | 42.1 | 13.1 | 4.8 | 3.8 | 422.1 | 88.9 | 399.2 |
| Cherry-ash-yellow-poplar | 649.0 | 16.0 | 16.9 | 17.4 | 2.0 | -- | 295.2 | 48.5 | 253.0 |
| Nonstocked | 40.5 | 1.7 | 2.7 | -- | -- | 2.1 | 14.9 | 2.4 | 16.7 |
| All types | 4,295.8 | 166.0 | 162.6 | 177.4 | 28.9 | 18.4 | 1,703.9 | 407.1 | 1,631.5 |
| Lower Wabash | | | | | | | | | |
| Jack-red-white pine | 9.9 | -- | -- | -- | -- | -- | -- | 9.9 | -- |
| Shortleaf pine | 3.7 | 0.5 | -- | 1.6 | -- | -- | -- | 1.6 | -- |
| Scotch-Virginia pine | 17.3 | -- | -- | -- | -- | -- | 8.6 | 5.4 | 3.3 |
| Oak-pine | 2.3 | -- | -- | -- | -- | -- | -- | 2.3 | -- |
| Oak-hickory | 296.1 | 4.5 | 40.4 | 2.0 | -- | -- | 101.7 | 25.5 | 122.0 |
| Chestnut-scarlet oak | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sassafras-persimmon | 7.4 | -- | -- | -- | -- | -- | 4.8 | -- | 2.6 |
| Oak-gum | 8.1 | -- | -- | 4.3 | -- | -- | -- | 1.5 | 2.3 |
| Lowland oak | 8.3 | -- | -- | -- | -- | -- | 2.0 | 2.0 | 4.3 |
| Elm-ash-soft maple | 224.4 | 0.8 | 4.6 | 11.2 | 4.0 | -- | 92.2 | 36.8 | 74.8 |
| Cottonwood | 6.7 | -- | -- | 2.1 | 2.3 | -- | -- | 2.3 | -- |
| Maple-beech | 159.4 | 2.2 | 8.6 | 2.0 | -- | -- | 52.8 | 24.3 | 69.5 |
| Cherry-ash-yellow-poplar | 114.7 | 1.0 | 5.6 | 6.3 | 2.0 | -- | 50.4 | 11.3 | 38.1 |
| Nonstocked | 2.1 | -- | -- | -- | -- | 2.1 | -- | -- | -- |
| All types | 860.4 | 9.0 | 59.2 | 29.5 | 8.3 | 2.1 | 312.5 | 122.9 | 316.9 |
| Knobs | | | | | | | | | |
| Jack-red-white pine | 29.8 | 11.5 | -- | 4.5 | -- | -- | 3.6 | 4.1 | 6.1 |
| Shortleaf pine | 20.2 | 14.3 | -- | 1.9 | -- | -- | 1.9 | -- | 2.1 |
| Scotch-Virginia pine | 45.7 | -- | -- | 4.0 | -- | -- | 20.8 | 4.0 | 16.9 |
| Oak-pine | 54.2 | 3.4 | 2.5 | 1.9 | -- | -- | 25.7 | 1.9 | 18.8 |
| Oak-hickory | 689.2 | 95.2 | 20.1 | 80.6 | 3.8 | 9.7 | 177.9 | 50.9 | 251.0 |
| Chestnut-scarlet oak | 39.7 | 6.2 | -- | 13.9 | -- | -- | -- | -- | 19.6 |
| Sassafras-persimmon | 12.4 | -- | -- | -- | -- | -- | 1.9 | 2.1 | 8.4 |
| Oak-gum | 25.6 | -- | -- | 2.3 | -- | -- | 13.1 | 2.0 | 8.2 |
| Lowland oak | 2.1 | -- | -- | -- | -- | -- | 2.1 | -- | -- |
| Elm-ash-soft maple | 202.6 | 1.2 | 10.7 | 4.2 | -- | -- | 66.5 | 31.7 | 88.3 |
| Cottonwood | 4.4 | -- | -- | -- | -- | -- | -- | 4.4 | -- |
| Maple-beech | 402.2 | 8.5 | 22.6 | 10.1 | 2.1 | 3.8 | 127.7 | 38.7 | 188.7 |
| Cherry-ash-yellow-poplar | 203.3 | 15.0 | 6.1 | 5.9 | -- | -- | 73.3 | 14.8 | 88.2 |
| Nonstocked | 9.7 | 1.7 | -- | -- | -- | -- | -- | -- | 8.0 |
| All types | 1,741.1 | 157.0 | 62.0 | 129.3 | 5.9 | 13.5 | 514.5 | 154.6 | 704.3 |

(Table 16 continued on next page)

(Table 16 continued)

| Unit and forest type | All owners | Ownership class: National forest | Misc. federal | State | County & municipal | Forest industry | Farmer | Misc. priv.-corp. | Misc. priv.-indiv. |
|---|---|---|---|---|---|---|---|---|---|
| Upland Flats Unit | | | | | | | | | |
| Jack-red-white pine | 3.8 | -- | -- | -- | -- | -- | -- | -- | 3.8 |
| Shortleaf pine | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 2.0 | -- | -- | -- | -- | -- | 2.0 | -- | -- |
| Oak-pine | 45.6 | -- | -- | -- | -- | -- | 22.6 | 2.1 | 20.9 |
| Oak-hickory | 116.1 | -- | 4.7 | 4.8 | -- | -- | 47.7 | 8.9 | 50.0 |
| Chestnut-scarlet oak | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 14.4 | -- | -- | -- | -- | -- | 7.5 | 2.7 | 4.2 |
| Lowland oak | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Elm-ash-soft maple | 86.7 | -- | 2.1 | -- | -- | -- | 45.8 | 2.1 | 36.7 |
| Cottonwood | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Maple-beech | 145.2 | -- | 4.0 | -- | 2.7 | -- | 67.3 | 4.1 | 67.1 |
| Cherry-ash-yellow-poplar | 150.8 | -- | -- | 2.8 | -- | -- | 76.7 | 6.6 | 64.7 |
| Nonstocked | 6.5 | -- | 2.7 | -- | -- | -- | 1.7 | -- | 2.1 |
| All types | 571.1 | -- | 13.5 | 7.6 | 2.7 | -- | 271.3 | 26.5 | 249.5 |
| Northern Unit | | | | | | | | | |
| Jack-red-white pine | 11.2 | -- | -- | -- | -- | -- | 2.8 | -- | 8.4 |
| Shortleaf pine | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 5.6 | -- | -- | -- | -- | -- | 5.6 | -- | -- |
| Oak-pine | 2.1 | -- | -- | -- | -- | -- | 2.1 | -- | -- |
| Oak-hickory | 269.4 | -- | 4.8 | 5.2 | 4.5 | 2.8 | 124.1 | 26.1 | 101.9 |
| Chestnut-scarlet oak | 6.4 | -- | -- | -- | -- | -- | 1.2 | -- | 5.2 |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 3.6 | -- | -- | -- | -- | -- | 2.4 | -- | 1.2 |
| Lowland oak | 20.5 | -- | -- | -- | -- | -- | 12.1 | 2.4 | 6.0 |
| Elm-ash-soft maple | 316.8 | -- | 11.0 | 2.4 | 7.5 | -- | 170.2 | 32.5 | 93.2 |
| Cottonwood | 7.3 | -- | -- | -- | -- | -- | 2.8 | 2.1 | 2.4 |
| Maple-beech | 277.9 | -- | 6.9 | 1.0 | -- | -- | 174.3 | 21.8 | 73.9 |
| Cherry-ash-yellow-poplar | 180.2 | -- | 5.2 | 2.4 | -- | -- | 94.8 | 15.8 | 62.0 |
| Nonstocked | 22.2 | -- | -- | -- | -- | -- | 13.2 | 2.4 | 6.6 |
| All types | 1,123.2 | -- | 27.9 | 11.0 | 12.0 | 2.8 | 605.6 | 103.1 | 360.8 |

Table 17.--Area of timberland by ownership class and site class, and Forest Survey Unit, Indiana, 1986

(In thousand acres)

| Unit and ownership class | All classes | Site class (cubic feet of growth per acre per year) 165+ | 120-164 | 85-119 | 50-84 | 20-49 |
|---|---|---|---|---|---|---|
| All Units | | | | | | |
| National forest | 166.0 | -- | 21.7 | 48.1 | 58.1 | 38.1 |
| Miscellaneous federal | 162.6 | -- | 17.2 | 45.8 | 77.6 | 22.0 |
| State | 177.4 | -- | 27.5 | 44.3 | 58.3 | 47.3 |
| County and municipal | 28.9 | -- | -- | 16.0 | 10.1 | 2.8 |
| Forest industry | 18.4 | -- | 3.8 | 1.9 | 5.9 | 6.8 |
| Farmer | 1,703.9 | -- | 294.1 | 605.3 | 531.3 | 273.2 |
| Misc. private-corporation | 407.1 | -- | 70.0 | 139.1 | 138.6 | 59.4 |
| Misc. private-individual | 1,631.5 | -- | 261.4 | 596.0 | 520.4 | 253.7 |
| All owners | 4,295.8 | -- | 695.7 | 1,496.5 | 1,400.3 | 703.3 |
| Lower Wabash Unit | | | | | | |
| National forest | 9.0 | -- | -- | 2.7 | 6.3 | -- |
| Miscellaneous federal | 59.2 | -- | 4.0 | 16.8 | 30.4 | 8.0 |
| State | 29.5 | -- | 7.9 | 8.1 | 6.3 | 7.2 |
| County and municipal | 8.3 | -- | -- | 6.0 | 2.3 | -- |
| Forest industry | 2.1 | -- | -- | -- | 2.1 | -- |
| Farmer | 312.5 | -- | 39.9 | 104.5 | 126.6 | 41.5 |
| Misc. private-corporation | 122.9 | -- | 32.1 | 37.7 | 34.3 | 18.8 |
| Misc. private-individual | 316.9 | -- | 57.1 | 111.4 | 109.3 | 39.1 |
| All owners | 860.4 | -- | 141.0 | 287.2 | 317.6 | 114.6 |
| Knobs Unit | | | | | | |
| National forest | 157.0 | -- | 21.7 | 45.4 | 51.8 | 38.1 |
| Miscellaneous federal | 62.0 | -- | 8.3 | 17.8 | 29.2 | 6.7 |
| State | 129.3 | -- | 14.4 | 30.4 | 47.2 | 37.3 |
| County and municipal | 5.9 | -- | -- | 2.1 | 3.8 | -- |
| Forest industry | 13.5 | -- | 3.8 | 1.9 | 3.8 | 4.0 |
| Farmer | 514.5 | -- | 100.3 | 170.4 | 170.3 | 73.5 |
| Misc. private-corporation | 154.6 | -- | 27.0 | 48.5 | 60.0 | 19.1 |
| Misc. private-individual | 704.3 | -- | 111.1 | 255.4 | 231.7 | 106.1 |
| All owners | 1,741.1 | -- | 286.6 | 571.9 | 597.8 | 284.8 |
| Upland Flats Unit | | | | | | |
| National forest | -- | -- | -- | -- | -- | -- |
| Miscellaneous federal | 13.5 | -- | -- | 4.0 | 6.7 | 2.8 |
| State | 7.6 | -- | 2.8 | 4.8 | -- | -- |
| County and municipal | 2.7 | -- | -- | 2.7 | -- | -- |
| Forest industry | -- | -- | -- | -- | -- | -- |
| Farmer | 271.3 | -- | 60.4 | 99.0 | 61.8 | 50.1 |
| Misc. private-corporation | 26.5 | -- | 2.1 | 9.6 | 6.1 | 8.7 |
| Misc. private-individual | 249.5 | -- | 41.2 | 84.0 | 69.6 | 54.7 |
| All owners | 571.1 | -- | 106.5 | 204.1 | 144.2 | 116.3 |
| Northern Unit | | | | | | |
| National forest | -- | -- | -- | -- | -- | -- |
| Miscellaneous federal | 27.9 | -- | 4.9 | 7.2 | 11.3 | 4.5 |
| State | 11.0 | -- | 2.4 | 1.0 | 4.8 | 2.8 |
| County and municipal | 12.0 | -- | -- | 5.2 | 4.0 | 2.8 |
| Forest industry | 2.8 | -- | -- | -- | -- | 2.8 |
| Farmer | 605.6 | -- | 93.5 | 231.4 | 172.6 | 108.1 |
| Misc. private-corporation | 103.1 | -- | 8.8 | 43.3 | 38.2 | 12.8 |
| Misc. private-individual | 360.8 | -- | 52.0 | 145.2 | 109.8 | 53.8 |
| All owners | 1,123.2 | -- | 161.6 | 433.3 | 340.7 | 187.6 |

Table 18.--Area of privately owned timberland by ownership class, owner tenure, and size of holding, Indiana, 1986

(In thousand acres)

| Ownership class and owner tenure class | All sizes | Size of holding (acres) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1-4 | 5-10 | 11-20 | 21-50 | 51-100 | 101-500 | 501-2,500 | 2,501-5,000 | 5001+ |
| Forest industry | | | | | | | | | | |
| 1-4 years | 7.6 | -- | -- | -- | -- | -- | 5.7 | -- | -- | 1.9 |
| 5-9 years | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10-19 years | 4.0 | -- | 2.1 | -- | -- | -- | -- | -- | -- | 1.9 |
| 20+ years | 6.8 | -- | -- | -- | -- | -- | 4.7 | -- | -- | 2.1 |
| All classes | 18.4 | -- | 2.1 | -- | -- | -- | 10.4 | -- | -- | 5.9 |
| Farmer | | | | | | | | | | |
| 1-4 years | 173.7 | 18.2 | 3.8 | 18.4 | 33.7 | 48.5 | 46.7 | 4.4 | -- | -- |
| 5-9 years | 327.7 | 14.4 | 9.9 | 65.5 | 83.2 | 69.3 | 80.6 | 4.8 | -- | -- |
| 10-19 years | 529.4 | 10.5 | 36.3 | 72.1 | 181.4 | 142.8 | 82.0 | 4.3 | -- | -- |
| 20+ years | 673.1 | 26.7 | 36.4 | 95.6 | 183.0 | 174.4 | 150.4 | 6.6 | -- | -- |
| All classes | 1,703.9 | 69.8 | 86.4 | 251.6 | 481.3 | 435.0 | 359.7 | 20.1 | -- | -- |
| Misc. priv.-corporation | | | | | | | | | | |
| 1-4 years | 71.9 | 2.1 | -- | 2.8 | 8.5 | 8.9 | 30.3 | 11.2 | 3.5 | 4.6 |
| 5-9 years | 97.6 | 6.2 | 2.4 | 6.3 | 9.5 | 11.2 | 31.4 | 14.8 | 7.2 | 8.6 |
| 10-19 years | 118.6 | 2.4 | -- | 7.1 | 8.1 | 14.0 | 24.4 | 33.4 | 3.7 | 25.5 |
| 20+ years | 119.0 | 4.3 | 4.5 | 2.4 | 14.7 | 15.1 | 21.9 | 25.8 | 7.7 | 22.6 |
| All classes | 407.1 | 15.0 | 6.9 | 18.6 | 40.8 | 49.2 | 108.0 | 85.2 | 22.1 | 61.3 |
| Misc. priv.-individual | | | | | | | | | | |
| 1-4 years | 330.9 | 29.1 | 38.1 | 37.3 | 76.8 | 68.7 | 63.7 | 8.5 | -- | 8.7 |
| 5-9 years | 368.1 | 35.6 | 18.0 | 65.9 | 125.6 | 60.3 | 61.5 | 1.2 | -- | -- |
| 10-19 years | 493.9 | 50.0 | 34.4 | 67.9 | 115.1 | 126.5 | 89.9 | 5.9 | 4.2 | -- |
| 20+ years | 438.6 | 27.7 | 27.0 | 58.8 | 117.4 | 105.6 | 93.6 | 6.2 | -- | 2.3 |
| All classes | 1,631.5 | 142.4 | 117.5 | 229.9 | 434.9 | 361.1 | 308.7 | 21.8 | 4.2 | 11.0 |
| All private owners | | | | | | | | | | |
| 1-4 years | 584.1 | 49.4 | 41.9 | 58.5 | 119.0 | 126.1 | 146.4 | 24.1 | 3.5 | 15.2 |
| 5-9 years | 793.4 | 56.2 | 30.3 | 137.7 | 218.3 | 140.8 | 173.5 | 20.8 | 7.2 | 8.6 |
| 10-19 years | 1,145.9 | 62.9 | 72.8 | 147.1 | 304.6 | 283.3 | 196.3 | 43.6 | 7.9 | 27.4 |
| 20+ years | 1,237.5 | 58.7 | 67.9 | 156.8 | 315.1 | 295.1 | 270.6 | 38.6 | 7.7 | 27.0 |
| All classes | 3,760.9 | 227.2 | 212.9 | 500.1 | 957.0 | 845.3 | 786.8 | 127.1 | 26.3 | 78.2 |

Table 19.--Area of timberland by ownership class and stocking class of growing-stock trees, and Forest Survey Unit, 1986

(In thousand acres)

| Unit and ownership class | All classes | Stocking percent of growing stock trees | | | | |
|---|---|---|---|---|---|---|
| | | Less than 16.7 | 16.7-59.9 | 60.0-99.9 | 100.0-129.9 | 130.0+ |
| All Units | | | | | | |
| National forest | 166.0 | 1.7 | 2.0 | 58.5 | 82.0 | 21.8 |
| Miscellaneous federal | 162.6 | 2.7 | 6.3 | 66.2 | 76.9 | 10.5 |
| State | 177.4 | -- | 6.6 | 60.3 | 94.6 | 15.9 |
| County and municipal | 28.9 | -- | 11.5 | 1.7 | 15.7 | -- |
| Forest industry | 18.4 | 2.1 | -- | 6.8 | 9.5 | -- |
| Farmer | 1,703.9 | 14.9 | 266.3 | 811.0 | 526.7 | 85.0 |
| Misc. private-corporation | 407.1 | 2.4 | 48.2 | 176.8 | 157.1 | 22.6 |
| Misc. private-individual | 1,631.5 | 16.7 | 185.2 | 778.5 | 570.5 | 80.6 |
| All owners | 4,295.8 | 40.5 | 526.1 | 1,959.8 | 1,533.0 | 236.4 |
| Lower Wabash Unit | | | | | | |
| National forest | 9.0 | -- | 1.0 | 3.0 | 5.0 | -- |
| Miscellaneous federal | 59.2 | -- | -- | 17.0 | 40.2 | 2.0 |
| State | 29.5 | -- | 4.2 | 15.0 | 10.3 | -- |
| County and municipal | 8.3 | -- | 2.0 | -- | 6.3 | -- |
| Forest industry | 2.1 | 2.1 | -- | -- | -- | -- |
| Farmer | 312.5 | -- | 36.7 | 169.8 | 88.5 | 17.5 |
| Misc. private-corporation | 122.9 | -- | 4.3 | 58.4 | 54.3 | 5.9 |
| Misc. private-individual | 316.9 | -- | 16.6 | 169.7 | 115.3 | 15.3 |
| All owners | 860.4 | 2.1 | 64.8 | 432.9 | 319.9 | 40.7 |
| Knobs Unit | | | | | | |
| National forest | 157.0 | 1.7 | 1.0 | 55.5 | 77.0 | 21.8 |
| Miscellaneous federal | 62.0 | -- | 2.5 | 33.7 | 20.1 | 5.7 |
| State | 129.3 | -- | -- | 38.4 | 80.5 | 10.4 |
| County and municipal | 5.9 | -- | 1.7 | -- | 4.2 | -- |
| Forest industry | 13.5 | -- | -- | 4.0 | 9.5 | -- |
| Farmer | 514.5 | -- | 48.8 | 213.0 | 221.3 | 31.4 |
| Misc. private-corporation | 154.6 | -- | 18.7 | 62.1 | 59.8 | 14.0 |
| Misc. private-individual | 704.3 | 8.0 | 36.0 | 297.3 | 319.2 | 43.8 |
| All owners | 1,741.1 | 9.7 | 108.7 | 704.0 | 791.6 | 127.1 |
| Upland Flats Unit | | | | | | |
| National forest | -- | -- | -- | -- | -- | -- |
| Miscellaneous federal | 13.5 | 2.7 | 2.1 | 3.8 | 4.9 | -- |
| State | 7.6 | -- | -- | 2.1 | -- | 5.5 |
| County and municipal | 2.7 | -- | 2.7 | -- | -- | -- |
| Forest industry | -- | -- | -- | -- | -- | -- |
| Farmer | 271.3 | 1.7 | 56.3 | 110.9 | 91.6 | 10.8 |
| Misc. private-corporation | 26.5 | -- | 6.2 | 10.7 | 6.9 | 2.7 |
| Misc. private-individual | 249.5 | 2.1 | 50.3 | 136.6 | 49.8 | 10.7 |
| All owners | 571.1 | 6.5 | 117.6 | 264.1 | 153.2 | 29.7 |
| Northern Unit | | | | | | |
| National forest | -- | -- | -- | -- | -- | -- |
| Miscellaneous federal | 27.9 | -- | 1.7 | 11.7 | 11.7 | 2.8 |
| State | 11.0 | -- | 2.4 | 4.8 | 3.8 | -- |
| County and municipal | 12.0 | -- | 5.1 | 1.7 | 5.2 | -- |
| Forest industry | 2.8 | -- | -- | 2.8 | -- | -- |
| Farmer | 605.6 | 13.2 | 124.5 | 317.3 | 125.3 | 25.3 |
| Misc. private-corporation | 103.1 | 2.4 | 19.0 | 45.6 | 36.1 | -- |
| Misc. private-individual | 360.8 | 6.6 | 82.3 | 174.9 | 86.2 | 10.8 |
| All owners | 1,123.2 | 22.2 | 235.0 | 558.8 | 268.3 | 38.9 |

Table 20.--Area of timberland by forest type and stand-size class, and Forest Survey Unit, 1986

(In thousand acres)

| Unit and forest type | All stands | Stand-size class | | | |
|---|---|---|---|---|---|
| | | Sawtimber | Poletimber | Sapling & seedling | Nonstocked |
| All Units | | | | | |
| Jack-red-white pine | 54.7 | 22.3 | 18.3 | 14.1 | -- |
| Shortleaf pine | 23.9 | 7.6 | 14.5 | 1.8 | -- |
| Scotch-Virginia pine | 70.6 | 24.4 | 14.1 | 32.1 | -- |
| Oak-pine | 104.2 | 44.6 | 25.8 | 33.8 | -- |
| Oak-hickory | 1,370.8 | 975.9 | 189.8 | 205.1 | -- |
| Chestnut-scarlet oak | 46.1 | 46.1 | -- | -- | -- |
| Sassafras-persimmon | 19.8 | -- | 4.2 | 15.6 | -- |
| Oak-gum | 51.7 | 29.7 | 4.6 | 17.4 | -- |
| Lowland oak | 30.9 | 25.3 | 3.6 | 2.0 | -- |
| Elm-ash-soft maple | 830.5 | 495.4 | 169.1 | 166.0 | -- |
| Cottonwood | 18.4 | 11.7 | 6.7 | -- | -- |
| Maple-beech | 984.7 | 692.3 | 110.5 | 181.9 | -- |
| Cherry-ash-yellow-poplar | 649.0 | 394.7 | 112.3 | 142.0 | -- |
| Nonstocked | 40.5 | -- | -- | -- | 40.5 |
| All types | 4,295.8 | 2,770.0 | 673.5 | 811.8 | 40.5 |
| Lower Wabash Unit | | | | | |
| Jack-red-white pine | 9.9 | 7.6 | 2.3 | -- | -- |
| Shortleaf pine | 3.7 | -- | 3.7 | -- | -- |
| Scotch-Virginia pine | 17.3 | 7.4 | 3.1 | 6.8 | -- |
| Oak-pine | 2.3 | 2.3 | -- | -- | -- |
| Oak-hickory | 296.1 | 218.6 | 27.4 | 50.1 | -- |
| Chestnut-scarlet oak | -- | -- | -- | -- | -- |
| Sassafras-persimmon | 7.4 | -- | -- | 7.4 | -- |
| Oak-gum | 8.1 | 5.8 | 2.3 | -- | -- |
| Lowland oak | 8.3 | 6.3 | -- | 2.0 | -- |
| Elm-ash-soft maple | 224.4 | 132.5 | 36.1 | 55.8 | -- |
| Cottonwood | 6.7 | 2.3 | 4.4 | -- | -- |
| Maple-beech | 159.4 | 113.1 | 20.5 | 25.8 | -- |
| Cherry-ash-yellow-poplar | 114.7 | 86.6 | 12.2 | 15.9 | -- |
| Nonstocked | 2.1 | -- | -- | -- | 2.1 |
| All types | 860.4 | 582.5 | 112.0 | 163.8 | 2.1 |
| Knobs Unit | | | | | |
| Jack-red-white pine | 29.8 | 8.1 | 7.6 | 14.1 | -- |
| Shortleaf pine | 20.2 | 7.6 | 10.8 | 1.8 | -- |
| Scotch-Virginia pine | 45.7 | 14.2 | 8.2 | 23.3 | -- |
| Oak-pine | 54.2 | 25.3 | 13.3 | 15.6 | -- |
| Oak-hickory | 689.2 | 502.5 | 86.8 | 99.9 | -- |
| Chestnut-scarlet oak | 39.7 | 39.7 | -- | -- | -- |
| Sassafras-persimmon | 12.4 | -- | 4.2 | 8.2 | -- |
| Oak-gum | 25.6 | 16.7 | 2.3 | 6.6 | -- |
| Lowland oak | 2.1 | 2.1 | -- | -- | -- |
| Elm-ash-soft maple | 202.6 | 105.1 | 48.3 | 49.2 | -- |
| Cottonwood | 4.4 | 2.1 | 2.3 | -- | -- |
| Maple-beech | 402.2 | 295.9 | 38.6 | 67.7 | -- |
| Cherry-ash-yellow-poplar | 203.3 | 129.4 | 31.6 | 42.3 | -- |
| Nonstocked | 9.7 | -- | -- | -- | 9.7 |
| All types | 1,741.1 | 1,148.7 | 254.0 | 328.7 | 9.7 |

(Table 20 continued on next page)

(Table 20 continued)

| Unit and forest type | All stands | Stand-size class | | | |
|---|---|---|---|---|---|
| | | Sawtimber | Poletimber | Sapling & seedling | Nonstocked |
| Upland Flats Unit | | | | | |
| Jack-red-white pine | 3.8 | 3.8 | -- | -- | -- |
| Shortleaf pine | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 2.0 | -- | -- | 2.0 | -- |
| Oak-pine | 45.6 | 17.0 | 12.5 | 16.1 | -- |
| Oak-hickory | 116.1 | 70.9 | 17.4 | 27.8 | -- |
| Chestnut-scarlet oak | -- | -- | -- | -- | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- |
| Oak-gum | 14.4 | 4.8 | -- | 9.6 | -- |
| Lowland oak | -- | -- | -- | -- | -- |
| Elm-ash-soft maple | 86.7 | 44.4 | 21.8 | 20.5 | -- |
| Cottonwood | -- | -- | -- | -- | -- |
| Maple-beech | 145.2 | 83.1 | 16.9 | 45.2 | -- |
| Cherry-ash-yellow-poplar | 150.8 | 61.4 | 45.3 | 44.1 | -- |
| Nonstocked | 6.5 | -- | -- | -- | 6.5 |
| All types | 571.1 | 285.4 | 113.9 | 165.3 | 6.5 |
| Northern Unit | | | | | |
| Jack-red-white pine | 11.2 | 2.8 | 8.4 | -- | -- |
| Shortleaf pine | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 5.6 | 2.8 | 2.8 | -- | -- |
| Oak-pine | 2.1 | -- | -- | 2.1 | -- |
| Oak-hickory | 269.4 | 183.9 | 58.2 | 27.3 | -- |
| Chestnut-scarlet oak | 6.4 | 6.4 | -- | -- | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- |
| Oak-gum | 3.6 | 2.4 | -- | 1.2 | -- |
| Lowland oak | 20.5 | 16.9 | 3.6 | -- | -- |
| Elm-ash-soft maple | 316.8 | 213.4 | 62.9 | 40.5 | -- |
| Cottonwood | 7.3 | 7.3 | -- | -- | -- |
| Maple-beech | 277.9 | 200.2 | 34.5 | 43.2 | -- |
| Cherry-ash-yellow-poplar | 180.2 | 117.3 | 23.2 | 39.7 | -- |
| Nonstocked | 22.2 | -- | -- | -- | 22.2 |
| All types | 1,123.2 | 753.4 | 193.6 | 154.0 | 22.2 |

Table 21.--Area of timberland by ownership class and stand-volume class, and Forest Survey Unit, 1986

(In thousand acres)

| Unit and ownership class | All classes | Stand-volume class (board feet[1/]) Less than 1,500 | 1,500 to 5,000 | 5,000+ |
|---|---|---|---|---|
| All Units | | | | |
| National forest | 166.0 | 34.2 | 52.4 | 79.4 |
| Miscellaneous federal | 162.6 | 47.7 | 49.0 | 65.9 |
| State | 177.4 | 34.2 | 38.2 | 105.0 |
| County and municipal | 28.9 | 6.4 | 15.0 | 7.5 |
| Forest industry | 18.4 | 2.1 | 6.6 | 9.7 |
| Farmer | 1,703.9 | 552.7 | 563.0 | 588.2 |
| Misc. private-corporation | 407.1 | 143.4 | 131.6 | 132.1 |
| Misc. private-individual | 1,631.5 | 527.7 | 507.7 | 596.1 |
| All owners | 4,295.8 | 1,348.4 | 1,363.5 | 1,583.9 |
| Lower Wabash Unit | | | | |
| National forest | 9.0 | 1.0 | 0.5 | 7.5 |
| Miscellaneous federal | 59.2 | 12.8 | 18.4 | 28.0 |
| State | 29.5 | 10.9 | 4.3 | 14.3 |
| County and municipal | 8.3 | 2.0 | 4.0 | 2.3 |
| Forest industry | 2.1 | 2.1 | -- | -- |
| Farmer | 312.5 | 88.9 | 112.2 | 111.4 |
| Misc. private-corporation | 122.9 | 40.7 | 49.7 | 32.5 |
| Misc. private-individual | 316.9 | 89.7 | 95.9 | 131.3 |
| All owners | 860.4 | 248.1 | 285.0 | 327.3 |
| Knobs Unit | | | | |
| National forest | 157.0 | 33.2 | 51.9 | 71.9 |
| Miscellaneous federal | 62.0 | 20.1 | 14.4 | 27.5 |
| State | 129.3 | 18.1 | 31.5 | 79.7 |
| County and municipal | 5.9 | -- | 5.9 | -- |
| Forest industry | 13.5 | -- | 3.8 | 9.7 |
| Farmer | 514.5 | 147.4 | 165.4 | 201.7 |
| Misc. private-corporation | 154.6 | 52.2 | 37.7 | 64.7 |
| Misc. private-individual | 704.3 | 180.0 | 229.6 | 294.7 |
| All owners | 1,741.1 | 451.0 | 540.2 | 749.9 |
| Upland Flats Unit | | | | |
| National forest | -- | -- | -- | -- |
| Miscellaneous federal | 13.5 | 10.7 | -- | 2.8 |
| State | 7.6 | -- | -- | 7.6 |
| County and municipal | 2.7 | 2.7 | -- | -- |
| Forest industry | -- | -- | -- | -- |
| Farmer | 271.3 | 121.4 | 62.3 | 87.6 |
| Misc. private-corporation | 26.5 | 15.3 | 2.1 | 9.1 |
| Misc. private-individual | 249.5 | 138.2 | 45.2 | 66.1 |
| All owners | 571.1 | 288.3 | 109.6 | 173.2 |
| Northern Unit | | | | |
| National forest | -- | -- | -- | -- |
| Miscellaneous federal | 27.9 | 4.1 | 16.2 | 7.6 |
| State | 11.0 | 5.2 | 2.4 | 3.4 |
| County and municipal | 12.0 | 1.7 | 5.1 | 5.2 |
| Forest industry | 2.8 | -- | 2.8 | -- |
| Farmer | 605.6 | 195.0 | 223.1 | 187.5 |
| Misc. private-corporation | 103.1 | 35.2 | 42.1 | 25.8 |
| Misc. private-individual | 360.8 | 119.8 | 137.0 | 104.0 |
| All owners | 1,123.2 | 361.0 | 428.7 | 333.5 |

[1/] International 1/4-inch rule.

Table 22.--Area of timberland by forest type, stand-size class, and ownership class, Indiana, 1986

(In thousand acres)

| Forest type and stand-size class | All owners | Ownership class | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | National forest | Misc. federal | State | County & municipal | Forest industry | Farmer | Misc. priv.-corp. | Misc. priv.-indiv. |
| Jack-red-white-pine | | | | | | | | | |
| Sawtimber | 22.3 | 4.1 | -- | 1.9 | -- | -- | 2.8 | 9.7 | 3.8 |
| Poletimber | 18.3 | -- | -- | -- | -- | -- | 3.6 | 2.3 | 12.4 |
| Sapling & seedling | 14.1 | 7.4 | -- | 2.6 | -- | -- | -- | 2.0 | 2.1 |
| All stands | 54.7 | 11.5 | -- | 4.5 | -- | -- | 6.4 | 14.0 | 18.3 |
| Shortleaf pine | | | | | | | | | |
| Sawtimber | 7.6 | 1.7 | -- | 1.9 | -- | -- | 1.9 | -- | 2.1 |
| Poletimber | 14.5 | 11.3 | -- | 1.6 | -- | -- | -- | 1.6 | -- |
| Sapling & seedling | 1.8 | 1.8 | -- | -- | -- | -- | -- | -- | -- |
| All stands | 23.9 | 14.8 | -- | 3.5 | -- | -- | 1.9 | 1.6 | 2.1 |
| Scotch-Virginia pine | | | | | | | | | |
| Sawtimber | 24.4 | -- | -- | 4.0 | -- | -- | 9.7 | 4.2 | 6.5 |
| Poletimber | 14.1 | -- | -- | -- | -- | -- | 6.8 | 3.1 | 4.2 |
| Sapling & seedling | 32.1 | -- | -- | -- | -- | -- | 20.5 | 2.1 | 9.5 |
| All stands | 70.6 | -- | -- | 4.0 | -- | -- | 37.0 | 9.4 | 20.2 |
| Oak-pine | | | | | | | | | |
| Sawtimber | 44.6 | 3.4 | -- | 1.9 | -- | -- | 20.6 | 4.2 | 14.5 |
| Poletimber | 25.8 | -- | 2.5 | -- | -- | -- | 12.1 | -- | 11.2 |
| Sapling & seedling | 33.8 | -- | -- | -- | -- | -- | 17.7 | 2.1 | 14.0 |
| All stands | 104.2 | 3.4 | 2.5 | 1.9 | -- | -- | 50.4 | 6.3 | 39.7 |
| Oak-hickory | | | | | | | | | |
| Sawtimber | 975.9 | 73.4 | 53.5 | 76.4 | 6.6 | 10.6 | 316.7 | 79.7 | 359.0 |
| Poletimber | 189.8 | 17.3 | 8.5 | 9.2 | -- | 1.9 | 69.0 | 10.1 | 73.8 |
| Sapling & seedling | 205.1 | 9.0 | 8.0 | 7.0 | 1.7 | -- | 65.7 | 21.6 | 92.1 |
| All stands | 1,370.8 | 99.7 | 70.0 | 92.6 | 8.3 | 12.5 | 451.4 | 111.4 | 524.9 |
| Chestnut-scarlet oak | | | | | | | | | |
| Sawtimber | 46.1 | 6.2 | -- | 13.9 | -- | -- | 1.2 | -- | 24.8 |
| Poletimber | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 46.1 | 6.2 | -- | 13.9 | -- | -- | 1.2 | -- | 24.8 |
| Sassafras-persimmon | | | | | | | | | |
| Sawtimber | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Poletimber | 4.2 | -- | -- | -- | -- | -- | -- | -- | 4.2 |
| Sapling & seedling | 15.6 | -- | -- | -- | -- | -- | 6.7 | 2.1 | 6.8 |
| All stands | 19.8 | -- | -- | -- | -- | -- | 6.7 | 2.1 | 11.0 |
| Oak-gum | | | | | | | | | |
| Sawtimber | 29.7 | -- | -- | 4.3 | -- | -- | 17.8 | 1.5 | 6.1 |
| Poletimber | 4.6 | -- | -- | 2.3 | -- | -- | -- | -- | 2.3 |
| Sapling & seedling | 17.4 | -- | -- | -- | -- | -- | 5.2 | 4.7 | 7.5 |
| All stands | 51.7 | -- | -- | 6.6 | -- | -- | 23.0 | 6.2 | 15.9 |

(Table 22 continued on next page)

(Table 22 continued)

| Forest type and stand-size class | All owners | Ownership class | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | National forest | Misc. federal | State | County & municipal | Forest industry | Farmer | Misc. priv.-corp. | Misc. priv.-indiv. |
| Lowland oak | | | | | | | | | |
| Sawtimber | 25.3 | -- | -- | -- | -- | -- | 13.8 | 4.4 | 7.1 |
| Poletimber | 3.6 | -- | -- | -- | -- | -- | 2.4 | -- | 1.2 |
| Sapling & seedling | 2.0 | -- | -- | -- | -- | -- | -- | -- | 2.0 |
| All stands | 30.9 | -- | -- | -- | -- | -- | 16.2 | 4.4 | 10.3 |
| Elm-ash-soft maple | | | | | | | | | |
| Sawtimber | 495.4 | 1.2 | 16.0 | 8.2 | 9.5 | -- | 258.2 | 42.7 | 159.6 |
| Poletimber | 169.1 | -- | 6.0 | 6.8 | -- | -- | 67.6 | 28.9 | 59.8 |
| Sapling & seedling | 166.0 | 0.8 | 6.4 | 2.8 | 2.0 | -- | 48.9 | 31.5 | 73.6 |
| All stands | 830.5 | 2.0 | 28.4 | 17.8 | 11.5 | -- | 374.7 | 103.1 | 293.0 |
| Cottonwood | | | | | | | | | |
| Sawtimber | 11.7 | -- | -- | -- | 2.3 | -- | 2.8 | 4.2 | 2.4 |
| Poletimber | 6.7 | -- | -- | 2.1 | -- | -- | -- | 4.6 | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 18.4 | -- | -- | 2.1 | 2.3 | -- | 2.8 | 8.8 | 2.4 |
| Maple-beech | | | | | | | | | |
| Sawtimber | 692.3 | 10.2 | 22.1 | 11.2 | -- | 3.8 | 302.7 | 62.4 | 279.9 |
| Poletimber | 110.5 | -- | 6.4 | 1.9 | 4.8 | -- | 48.9 | 6.4 | 42.1 |
| Sapling & seedling | 181.9 | 0.5 | 13.6 | -- | -- | -- | 70.5 | 20.1 | 77.2 |
| All stands | 984.7 | 10.7 | 42.1 | 13.1 | 4.8 | 3.8 | 422.1 | 88.9 | 399.2 |
| Cherry-ash-yellow-poplar | | | | | | | | | |
| Sawtimber | 394.7 | 5.6 | 11.8 | 17.4 | 2.0 | -- | 184.1 | 28.7 | 145.1 |
| Poletimber | 112.3 | 3.2 | 5.1 | -- | -- | -- | 47.0 | 11.3 | 45.7 |
| Sapling & seedling | 142.0 | 7.2 | -- | -- | -- | -- | 64.1 | 8.5 | 62.2 |
| All stands | 649.0 | 16.0 | 16.9 | 17.4 | 2.0 | -- | 295.2 | 48.5 | 253.0 |
| Nonstocked | 40.5 | 1.7 | 2.7 | -- | -- | 2.1 | 14.9 | 2.4 | 16.7 |
| All types | | | | | | | | | |
| Sawtimber | 2,770.0 | 105.8 | 103.4 | 141.1 | 20.4 | 14.4 | 1,132.3 | 241.7 | 1,010.9 |
| Poletimber | 673.5 | 31.8 | 28.5 | 23.9 | 4.8 | 1.9 | 257.4 | 68.3 | 256.9 |
| Sapling & seedling | 811.8 | 26.7 | 28.0 | 12.4 | 3.7 | -- | 299.3 | 94.7 | 347.0 |
| Nonstocked | 40.5 | 1.7 | 2.7 | -- | -- | 2.1 | 14.9 | 2.4 | 16.7 |
| All stands | 4,295.8 | 166.0 | 162.6 | 177.4 | 28.9 | 18.4 | 1,703.9 | 407.1 | 1,631.5 |

Table 23.--Area of timberland by forest type, stand-size class, and site class, Indiana, 1986

(In thousand acres)

| Forest type and stand-size class | All classes | Site class (cubic feet of growth per acre per year) | | | | |
|---|---|---|---|---|---|---|
| | | 165+ | 120-164 | 85-119 | 50-84 | 20-49 |
| Jack-red-white pine | | | | | | |
| Sawtimber | 22.3 | -- | 22.3 | -- | -- | -- |
| Poletimber | 18.3 | -- | 10.4 | 7.9 | -- | -- |
| Sapling & seedling | 14.1 | -- | 14.1 | -- | -- | -- |
| All stands | 54.7 | -- | 46.8 | 7.9 | -- | -- |
| Shortleaf pine | | | | | | |
| Sawtimber | 7.6 | -- | 2.8 | 2.3 | 2.5 | -- |
| Poletimber | 14.5 | -- | 3.2 | 11.3 | -- | -- |
| Sapling & seedling | 1.8 | -- | -- | -- | -- | 1.8 |
| All stands | 23.9 | -- | 6.0 | 13.6 | 2.5 | 1.8 |
| Scotch-Virginia pine | | | | | | |
| Sawtimber | 24.4 | -- | 10.4 | 9.4 | 4.6 | -- |
| Poletimber | 14.1 | -- | 7.9 | -- | 3.9 | 2.3 |
| Sapling & seedling | 32.1 | -- | 6.3 | 6.5 | 13.3 | 6.0 |
| All stands | 70.6 | -- | 24.6 | 15.9 | 21.8 | 8.3 |
| Oak-pine | | | | | | |
| Sawtimber | 44.6 | -- | 6.4 | 19.4 | 15.0 | 3.8 |
| Poletimber | 25.8 | -- | -- | 7.8 | 18.0 | -- |
| Sapling & seedling | 33.8 | -- | 2.1 | 3.8 | 17.6 | 10.3 |
| All stands | 104.2 | -- | 8.5 | 31.0 | 50.6 | 14.1 |
| Oak-hickory | | | | | | |
| Sawtimber | 975.9 | -- | -- | 225.9 | 566.3 | 183.7 |
| Poletimber | 189.8 | -- | -- | 43.6 | 103.5 | 42.7 |
| Sapling & seedling | 205.1 | -- | -- | 38.3 | 105.6 | 61.2 |
| All stands | 1,370.8 | -- | -- | 307.8 | 775.4 | 287.6 |
| Chestnut-scarlet oak | | | | | | |
| Sawtimber | 46.1 | -- | -- | 2.8 | 29.4 | 13.9 |
| Poletimber | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- |
| All stands | 46.1 | -- | -- | 2.8 | 29.4 | 13.9 |
| Sassafras-persimmon | | | | | | |
| Sawtimber | -- | -- | -- | -- | -- | -- |
| Poletimber | 4.2 | -- | -- | 4.2 | -- | -- |
| Sapling & seedling | 15.6 | -- | -- | 4.7 | 8.3 | 2.6 |
| All stands | 19.8 | -- | -- | 8.9 | 8.3 | 2.6 |
| Oak-gum | | | | | | |
| Sawtimber | 29.7 | -- | -- | 10.1 | 8.7 | 10.9 |
| Poletimber | 4.6 | -- | -- | -- | 2.3 | 2.3 |
| Sapling & seedling | 17.4 | -- | -- | -- | 4.5 | 12.9 |
| All stands | 51.7 | -- | -- | 10.1 | 15.5 | 26.1 |

(Table 23 continued on next page)

(Table 23 continued)

| Forest type and stand-size class | All classes | Site class (cubic feet of growth per acre per year) | | | | |
|---|---|---|---|---|---|---|
| | | 165+ | 120-164 | 85-119 | 50-84 | 20-49 |
| Lowland oak | | | | | | |
| Sawtimber | 25.3 | -- | -- | 7.1 | 11.3 | 6.9 |
| Poletimber | 3.6 | -- | -- | -- | 1.2 | 2.4 |
| Sapling & seedling | 2.0 | -- | -- | -- | -- | 2.0 |
| All stands | 30.9 | -- | -- | 7.1 | 12.5 | 11.3 |
| Elm-ash-soft maple | | | | | | |
| Sawtimber | 495.4 | -- | -- | 200.1 | 207.6 | 87.7 |
| Poletimber | 169.1 | -- | -- | 66.3 | 53.5 | 49.3 |
| Sapling & seedling | 166.0 | -- | -- | 38.6 | 40.4 | 87.0 |
| All stands | 830.5 | -- | -- | 305.0 | 301.5 | 224.0 |
| Cottonwood | | | | | | |
| Sawtimber | 11.7 | -- | -- | 2.8 | 6.8 | 2.1 |
| Poletimber | 6.7 | -- | -- | -- | -- | 6.7 |
| Sapling & seedling | -- | -- | -- | -- | -- | -- |
| All stands | 18.4 | -- | -- | 2.8 | 6.8 | 8.8 |
| Maple-beech | | | | | | |
| Sawtimber | 692.3 | -- | 259.5 | 355.0 | 54.9 | 22.9 |
| Poletimber | 110.5 | -- | 29.7 | 62.2 | 13.8 | 4.8 |
| Sapling & seedling | 181.9 | -- | 43.1 | 89.4 | 28.9 | 20.5 |
| All stands | 984.7 | -- | 332.3 | 506.6 | 97.6 | 48.2 |
| Cherry-ash-yellow-poplar | | | | | | |
| Sawtimber | 394.7 | -- | 218.8 | 143.1 | 24.9 | 7.9 |
| Poletimber | 112.3 | -- | 32.3 | 61.7 | 7.6 | 10.7 |
| Sapling & seedling | 142.0 | -- | 26.4 | 68.6 | 31.8 | 15.2 |
| All stands | 649.0 | -- | 277.5 | 273.4 | 64.3 | 33.8 |
| Nonstocked | 40.5 | -- | -- | 3.6 | 14.1 | 22.8 |
| All types | | | | | | |
| Sawtimber | 2,770.0 | -- | 520.2 | 978.0 | 932.0 | 339.8 |
| Poletimber | 673.5 | -- | 83.5 | 265.0 | 203.8 | 121.2 |
| Sapling & seedling | 811.8 | -- | 92.0 | 249.9 | 250.4 | 219.5 |
| Nonstocked | 40.5 | -- | -- | 3.6 | 14.1 | 22.8 |
| All stands | 4,295.8 | -- | 695.7 | 1,496.5 | 1,400.3 | 703.3 |

Table 24.--Area of timberland by forest type and stand-age class, Indiana, 1986

(In thousand acres)

| Forest type | All ages | Stand-age class (years) 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | 101-120 | 121-140 | 141+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| All Units | | | | | | | | | | | | | | |
| Jack-red-white pine | 54.7 | 11.5 | 5.4 | 16.8 | 18.2 | 2.8 | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | 23.9 | 1.8 | 3.2 | -- | 13.8 | 2.8 | 2.3 | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 70.6 | 11.4 | 20.6 | 5.7 | 17.3 | 10.9 | 2.8 | 1.9 | -- | -- | -- | -- | -- | -- |
| Oak-pine | 104.2 | 15.4 | 21.4 | 15.4 | 19.2 | 16.6 | 5.9 | 1.9 | 6.5 | -- | 1.9 | -- | -- | -- |
| Oak-hickory | 1,370.8 | 107.9 | 98.9 | 55.1 | 71.9 | 133.6 | 202.8 | 186.6 | 172.8 | 150.2 | 85.9 | 80.5 | 20.1 | 4.5 |
| Chestnut-scarlet oak | 46.1 | -- | -- | -- | 1.2 | -- | 1.9 | 9.7 | 3.8 | 13.7 | 8.0 | 1.9 | 5.9 | -- |
| Sassafras-persimmon | 19.8 | 10.8 | 6.7 | -- | -- | -- | 2.3 | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 51.7 | 7.5 | 9.9 | -- | 2.3 | 13.3 | 4.1 | 5.5 | -- | 4.3 | 2.3 | 2.5 | -- | -- |
| Lowland oak | 30.9 | 2.0 | -- | 1.2 | 2.4 | -- | 5.1 | 8.9 | 8.9 | 2.4 | -- | -- | -- | -- |
| Elm-ash-soft maple | 830.5 | 93.1 | 90.0 | 99.9 | 120.9 | 138.3 | 98.7 | 71.6 | 67.1 | 30.4 | 8.7 | 7.3 | 2.1 | 2.4 |
| Cottonwood | 18.4 | -- | 2.3 | 7.2 | -- | 2.4 | 2.3 | 2.1 | 2.1 | -- | -- | -- | -- | -- |
| Maple-beech | 984.7 | 80.7 | 106.3 | 58.0 | 73.0 | 110.9 | 154.5 | 114.7 | 103.3 | 91.4 | 36.6 | 45.5 | 6.5 | 3.3 |
| Cherry-ash-yellow-poplar | 649.0 | 53.2 | 93.8 | 70.9 | 95.6 | 142.3 | 83.9 | 65.5 | 28.9 | 10.2 | 4.7 | -- | -- | -- |
| Nonstocked | 40.5 | 40.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All types | 4,295.8 | 435.8 | 458.5 | 330.2 | 435.8 | 573.9 | 566.6 | 468.4 | 393.4 | 302.6 | 148.1 | 137.7 | 34.6 | 10.2 |
| Lower Wabash Unit | | | | | | | | | | | | | | |
| Jack-red-white pine | 9.9 | -- | -- | 2.3 | 7.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | 3.7 | -- | 3.2 | -- | 0.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 17.3 | 3.1 | 3.7 | 1.6 | 1.5 | 4.6 | 2.8 | -- | -- | -- | -- | -- | -- | -- |
| Oak-pine | 2.3 | -- | -- | 2.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-hickory | 296.1 | 23.3 | 22.5 | 14.2 | 13.2 | 30.5 | 58.0 | 37.2 | 46.2 | 33.9 | 6.8 | 10.3 | -- | -- |
| Chestnut-scarlet oak | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sassafras-persimmon | 7.4 | 2.6 | 4.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 8.1 | -- | -- | -- | -- | 4.3 | -- | 1.5 | -- | -- | 2.3 | -- | -- | -- |
| Lowland oak | 8.3 | 2.0 | -- | -- | -- | -- | 2.3 | 2.0 | 2.0 | -- | -- | -- | -- | -- |
| Elm-ash-soft maple | 224.4 | 18.3 | 44.1 | 24.6 | 31.4 | 41.2 | 33.7 | 11.4 | 13.1 | 6.6 | -- | -- | -- | -- |
| Cottonwood | 6.7 | -- | -- | 4.4 | -- | -- | 2.3 | -- | -- | -- | -- | -- | -- | -- |
| Maple-beech | 159.4 | 14.9 | 10.5 | 17.3 | 7.9 | 27.6 | 28.8 | 15.3 | 18.3 | 8.6 | 6.2 | 2.0 | 2.0 | -- |
| Cherry-ash-yellow-poplar | 114.7 | 2.0 | 18.5 | 8.7 | 20.2 | 31.7 | 8.0 | 13.6 | 8.0 | 4.0 | -- | -- | -- | -- |
| Nonstocked | 2.1 | 2.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All types | 860.4 | 68.3 | 107.3 | 75.4 | 82.3 | 139.9 | 135.9 | 81.0 | 87.6 | 53.1 | 15.3 | 12.3 | 2.0 | -- |
| Knobs Unit | | | | | | | | | | | | | | |
| Jack-red-white pine | 29.8 | 11.5 | 2.6 | 11.7 | 4.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | 20.2 | 1.8 | -- | -- | 13.3 | 2.8 | 2.3 | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 45.7 | 8.3 | 14.9 | 4.1 | 10.2 | 6.3 | -- | 1.9 | -- | -- | -- | -- | -- | -- |
| Oak-pine | 54.2 | 7.6 | 8.0 | 6.4 | 4.0 | 16.6 | 5.9 | 1.9 | 3.8 | -- | -- | -- | -- | -- |
| Oak-hickory | 689.2 | 47.6 | 52.3 | 16.0 | 36.2 | 66.7 | 102.0 | 95.6 | 82.9 | 94.2 | 42.1 | 44.2 | 7.3 | 2.1 |
| Chestnut-scarlet oak | 39.7 | -- | -- | -- | -- | -- | 1.9 | 6.9 | 3.8 | 11.3 | 8.0 | 1.9 | 5.9 | -- |
| Sassafras-persimmon | 12.4 | 8.2 | 1.9 | -- | -- | -- | 2.3 | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 25.6 | 2.1 | 4.5 | -- | 2.3 | 4.2 | 4.1 | 4.0 | -- | 1.9 | -- | 2.5 | -- | -- |
| Lowland oak | 2.1 | -- | -- | -- | -- | -- | -- | 2.1 | -- | -- | -- | -- | -- | -- |
| Elm-ash-soft maple | 202.6 | 30.6 | 25.2 | 19.2 | 29.1 | 27.5 | 21.4 | 24.6 | 14.7 | 6.5 | 1.7 | 2.1 | -- | -- |
| Cottonwood | 4.4 | -- | 2.3 | -- | -- | -- | -- | 2.1 | -- | -- | -- | -- | -- | -- |
| Maple-beech | 402.2 | 32.7 | 39.1 | 8.7 | 38.8 | 26.8 | 79.6 | 49.3 | 46.0 | 45.3 | 18.0 | 17.9 | -- | -- |
| Cherry-ash-yellow-poplar | 203.3 | 19.3 | 23.0 | 21.0 | 37.8 | 49.5 | 23.8 | 13.9 | 9.3 | 3.8 | 1.9 | -- | -- | -- |
| Nonstocked | 9.7 | 9.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All types | 1,741.1 | 179.4 | 173.8 | 87.1 | 175.7 | 200.4 | 243.3 | 202.3 | 160.5 | 163.0 | 71.7 | 68.6 | 13.2 | 2.1 |

(Table 24 continued on next page)

(Table 24 continued)

| Forest type | All ages | Stand-age class (years) 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | 101-120 | 121-140 | 141+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Upland Flats Unit | | | | | | | | | | | | | | |
| Jack-red-white pine | 3.8 | -- | -- | -- | 3.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 2.0 | -- | 2.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-pine | 45.6 | 7.8 | 11.3 | 6.7 | 15.2 | -- | -- | -- | 2.7 | -- | 1.9 | -- | -- | -- |
| Oak-hickory | 116.1 | 15.7 | 10.2 | 4.6 | 10.2 | 15.6 | 7.0 | 18.6 | 15.3 | 6.5 | 7.7 | 4.7 | -- | -- |
| Chestnut-scarlet oak | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 14.4 | 4.2 | 5.4 | -- | -- | 4.8 | -- | -- | -- | -- | -- | -- | -- | -- |
| Lowland oak | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Elm-ash-soft maple | 86.7 | 14.5 | 6.0 | 11.4 | 12.6 | 14.6 | 9.0 | -- | 7.5 | 6.9 | 2.1 | -- | 2.1 | -- |
| Cottonwood | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Maple-beech | 145.2 | 16.0 | 27.8 | 7.5 | 13.5 | 6.7 | 22.4 | 13.9 | 12.5 | 17.9 | -- | 7.0 | -- | -- |
| Cherry-ash-yellow-poplar | 150.8 | 17.9 | 26.6 | 20.8 | 12.2 | 27.0 | 23.0 | 21.3 | 2.0 | -- | -- | -- | -- | -- |
| Nonstocked | 6.5 | 6.5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All types | 571.1 | 82.6 | 89.3 | 51.0 | 67.5 | 68.7 | 61.4 | 53.8 | 40.0 | 31.3 | 11.7 | 11.7 | 2.1 | -- |
| Northern Unit | | | | | | | | | | | | | | |
| Jack-red-white pine | 11.2 | -- | 2.8 | 2.8 | 2.8 | 2.8 | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 5.6 | -- | -- | -- | 5.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-pine | 2.1 | -- | 2.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-hickory | 269.4 | 21.3 | 13.9 | 20.3 | 12.3 | 20.8 | 35.8 | 35.2 | 28.4 | 15.6 | 29.3 | 21.3 | 12.8 | 2.4 |
| Chestnut-scarlet oak | 6.4 | -- | -- | -- | 1.2 | -- | -- | 2.8 | -- | 2.4 | -- | -- | -- | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 3.6 | 1.2 | -- | -- | -- | -- | -- | -- | -- | 2.4 | -- | -- | -- | -- |
| Lowland oak | 20.5 | -- | -- | 1.2 | 2.4 | -- | 2.8 | 4.8 | 6.9 | 2.4 | -- | -- | -- | -- |
| Elm-ash-soft maple | 316.8 | 29.7 | 14.7 | 44.7 | 47.8 | 55.0 | 34.6 | 35.6 | 31.8 | 10.4 | 4.9 | 5.2 | -- | 2.4 |
| Cottonwood | 7.3 | -- | -- | 2.8 | -- | 2.4 | -- | -- | 2.1 | -- | -- | -- | -- | -- |
| Maple-beech | 277.9 | 17.1 | 28.9 | 24.5 | 12.8 | 49.8 | 23.7 | 36.2 | 26.5 | 19.6 | 12.4 | 18.6 | 4.5 | 3.3 |
| Cherry-ash-yellow-poplar | 180.2 | 14.0 | 25.7 | 20.4 | 25.4 | 34.1 | 29.1 | 16.7 | 9.6 | 2.4 | 2.8 | -- | -- | -- |
| Nonstocked | 22.2 | 22.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All types | 1,123.2 | 105.5 | 88.1 | 116.7 | 110.3 | 164.9 | 126.0 | 131.3 | 105.3 | 55.2 | 49.4 | 45.1 | 17.3 | 8.1 |

Table 25.--Area of timberland by forest type, site-index class, and Forest Survey Unit, Indiana, 1986

(In thousand acres)

| Unit and forest type | All classes | Site-index class (feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91+ |
| All Units | | | | | | | | | | |
| Jack-red-white pine | 54.7 | -- | -- | -- | -- | -- | -- | 5.1 | 2.8 | 46.8 |
| Shortleaf pine | 23.9 | -- | -- | -- | -- | 1.8 | 0.4 | 4.0 | 14.1 | 3.6 |
| Scotch-Virginia pine | 70.6 | -- | -- | 6.3 | -- | 3.6 | 15.6 | 14.4 | 16.9 | 13.8 |
| Oak-pine | 104.2 | -- | -- | 2.6 | 5.5 | -- | 15.5 | 33.3 | 17.9 | 29.4 |
| Oak-hickory | 1,370.8 | -- | -- | 4.7 | 34.8 | 125.0 | 296.2 | 366.8 | 338.0 | 205.3 |
| Chestnut-scarlet oak | 46.1 | -- | -- | -- | 2.1 | 4.0 | 13.7 | 21.1 | 5.2 | -- |
| Sassafras-persimmon | 19.8 | -- | -- | -- | -- | -- | 4.7 | 6.2 | 2.1 | 6.8 |
| Oak-gum | 51.7 | -- | -- | -- | 1.2 | 2.7 | 19.5 | 11.9 | 6.3 | 10.1 |
| Lowland oak | 30.9 | -- | -- | -- | -- | 6.9 | -- | 6.5 | 10.4 | 7.1 |
| Elm-ash-soft maple | 830.5 | -- | -- | 2.7 | 13.6 | 41.5 | 108.6 | 167.6 | 191.5 | 305.0 |
| Cottonwood | 18.4 | -- | -- | -- | -- | 4.2 | 4.6 | -- | 6.8 | 2.8 |
| Maple-beech | 984.7 | -- | -- | -- | 6.1 | 42.1 | 97.6 | 162.7 | 254.2 | 422.0 |
| Cherry-ash-yellow-poplar | 649.0 | -- | -- | -- | 2.8 | 31.0 | 64.3 | 76.1 | 150.2 | 324.6 |
| Nonstocked | 40.5 | -- | -- | 3.8 | 3.8 | 11.9 | 6.2 | 6.7 | 5.7 | 2.4 |
| All types | 4,295.8 | -- | -- | 20.1 | 69.9 | 274.7 | 646.9 | 882.4 | 1,022.1 | 1,379.7 |
| Lower Wabash Unit | | | | | | | | | | |
| Jack-red-white pine | 9.9 | -- | -- | -- | -- | -- | -- | 2.3 | -- | 7.6 |
| Shortleaf pine | 3.7 | -- | -- | -- | -- | -- | -- | -- | 0.5 | 3.2 |
| Scotch-Virginia pine | 17.3 | -- | -- | -- | -- | 1.6 | 5.2 | 4.4 | 2.3 | 3.8 |
| Oak-pine | 2.3 | -- | -- | -- | -- | -- | -- | -- | -- | 2.3 |
| Oak-hickory | 296.1 | -- | -- | 2.3 | -- | 16.2 | 54.2 | 85.2 | 89.1 | 49.1 |
| Chestnut-scarlet oak | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sassafras-persimmon | 7.4 | -- | -- | -- | -- | -- | 2.6 | 2.2 | -- | 2.6 |
| Oak-gum | 8.1 | -- | -- | -- | -- | -- | 3.8 | -- | 2.3 | 2.0 |
| Lowland oak | 8.3 | -- | -- | -- | -- | -- | -- | 2.0 | 4.0 | 2.3 |
| Elm-ash-soft maple | 224.4 | -- | -- | -- | 4.8 | 12.4 | 28.8 | 27.1 | 56.3 | 95.0 |
| Cottonwood | 6.7 | -- | -- | -- | -- | 2.1 | 2.3 | -- | 2.3 | - |
| Maple-beech | 159.4 | -- | -- | -- | -- | 10.0 | 16.1 | 19.5 | 35.7 | 78.1 |
| Cherry-ash-yellow-poplar | 114.7 | -- | -- | -- | -- | 4.4 | 9.6 | 7.8 | 23.2 | 69.7 |
| Nonstocked | 2.1 | -- | -- | -- | -- | -- | -- | -- | 2.1 | -- |
| All types | 860.4 | -- | -- | 2.3 | 4.8 | 46.7 | 122.6 | 150.5 | 217.8 | 315.7 |
| Knobs Unit | | | | | | | | | | |
| Jack-red-white pine | 29.8 | -- | -- | -- | -- | -- | -- | -- | -- | 29.8 |
| Shortleaf pine | 20.2 | -- | -- | -- | -- | 1.8 | 0.4 | 4.0 | 13.6 | 0.4 |
| Scotch-Virginia pine | 45.7 | -- | -- | 4.3 | -- | 2.0 | 10.4 | 7.2 | 14.6 | 7.2 |
| Oak-pine | 54.2 | -- | -- | 2.6 | -- | -- | 7.6 | 24.0 | 8.3 | 11.7 |
| Oak-hickory | 689.2 | -- | -- | -- | 22.1 | 73.9 | 157.1 | 190.7 | 173.1 | 72.3 |
| Chestnut-scarlet oak | 39.7 | -- | -- | -- | 2.1 | 4.0 | 13.7 | 19.9 | -- | -- |
| Sassafras-persimmon | 12.4 | -- | -- | -- | -- | -- | 2.1 | 4.0 | 2.1 | 4.2 |
| Oak-gum | 25.6 | -- | -- | -- | -- | -- | 8.8 | 6.8 | 1.9 | 8.1 |
| Lowland oak | 2.1 | -- | -- | -- | -- | 2.1 | -- | -- | -- | -- |
| Elm-ash-soft maple | 202.6 | -- | -- | -- | 6.4 | 4.5 | 15.6 | 40.5 | 43.3 | 92.3 |
| Cottonwood | 4.4 | -- | -- | -- | -- | -- | 2.3 | -- | 2.1 | -- |
| Maple-beech | 402.2 | -- | -- | -- | 4.0 | 12.1 | 30.9 | 74.6 | 113.8 | 166.8 |
| Cherry-ash-yellow-poplar | 203.3 | -- | -- | -- | -- | 4.2 | 18.4 | 19.4 | 36.5 | 124.8 |
| Nonstocked | 9.7 | -- | -- | 3.8 | -- | 2.1 | 3.8 | -- | -- | -- |
| All types | 1,741.1 | -- | -- | 10.7 | 34.6 | 106.7 | 271.1 | 391.1 | 409.3 | 517.6 |

(Table 25 continued on next page)

(Table 25 continued)

| Unit and forest type | All classes | Site-index class (feet) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91+ |
| Upland Flats Unit | | | | | | | | | | |
| Jack-red-white pine | 3.8 | -- | -- | -- | -- | -- | -- | -- | -- | 3.8 |
| Shortleaf pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 2.0 | -- | -- | 2.0 | -- | -- | -- | -- | -- | -- |
| Oak-pine | 45.6 | -- | -- | -- | 5.5 | -- | 7.9 | 9.3 | 9.6 | 13.3 |
| Oak-hickory | 116.1 | -- | -- | -- | 0.5 | 12.2 | 20.7 | 25.5 | 21.1 | 36.1 |
| Chestnut-scarlet oak | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 14.4 | -- | -- | -- | -- | 2.7 | 6.9 | 2.7 | 2.1 | -- |
| Lowland oak | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Elm-ash-soft maple | 86.7 | -- | -- | 2.7 | -- | 12.8 | 20.5 | 22.1 | 14.0 | 14.6 |
| Cottonwood | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Maple-beech | 145.2 | -- | -- | -- | 2.1 | 6.2 | 23.2 | 13.4 | 37.4 | 62.9 |
| Cherry-ash-yellow-poplar | 150.8 | -- | -- | -- | -- | 19.6 | 16.5 | 20.5 | 48.7 | 45.5 |
| Nonstocked | 6.5 | -- | -- | -- | 3.8 | -- | -- | 2.7 | -- | -- |
| All types | 571.1 | -- | -- | 4.7 | 11.9 | 53.5 | 95.7 | 96.2 | 132.9 | 176.2 |
| Northern Unit | | | | | | | | | | |
| Jack-red-white pine | 11.2 | -- | -- | -- | -- | -- | -- | 2.8 | 2.8 | 5.6 |
| Shortleaf pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 5.6 | -- | -- | -- | -- | -- | -- | 2.8 | -- | 2.8 |
| Oak-pine | 2.1 | -- | -- | -- | -- | -- | -- | -- | -- | 2.1 |
| Oak-hickory | 269.4 | -- | -- | 2.4 | 12.2 | 22.7 | 64.2 | 65.4 | 54.7 | 47.8 |
| Chestnut-scarlet oak | 6.4 | -- | -- | -- | -- | -- | -- | 1.2 | 5.2 | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 3.6 | -- | -- | -- | 1.2 | -- | -- | 2.4 | -- | -- |
| Lowland oak | 20.5 | -- | -- | -- | -- | 4.8 | -- | 4.5 | 6.4 | 4.8 |
| Elm-ash-soft maple | 316.8 | -- | -- | -- | 2.4 | 11.8 | 43.7 | 77.9 | 77.9 | 103.1 |
| Cottonwood | 7.3 | -- | -- | -- | -- | 2.1 | -- | -- | 2.4 | 2.8 |
| Maple-beech | 277.9 | -- | -- | -- | -- | 13.8 | 27.4 | 55.2 | 67.3 | 114.2 |
| Cherry-ash-yellow-poplar | 180.2 | -- | -- | -- | 2.8 | 2.8 | 19.8 | 28.4 | 41.8 | 84.6 |
| Nonstocked | 22.2 | -- | -- | -- | -- | 9.8 | 2.4 | 4.0 | 3.6 | 2.4 |
| All types | 1,123.2 | -- | -- | 2.4 | 18.6 | 67.8 | 157.5 | 244.6 | 262.1 | 370.2 |

Table 26.--Area of timberland by forest type, stand-size class, and basal-area class, Indiana, 1986

(In thousand acres)

| Forest type and stand-size class | All classes | Basal-area class (square feet per acre) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | 101-120 | 121-150 | 151-180 | 181+ |
| Jack-red-white pine | | | | | | | | | | | | | | | |
| Sawtimber | 22.3 | -- | -- | -- | -- | 1.5 | -- | -- | -- | 4.1 | -- | 8.0 | -- | 8.7 | -- |
| Poletimber | 18.3 | -- | -- | -- | 2.8 | -- | -- | -- | -- | 2.3 | 2.8 | 5.5 | 2.1 | 2.8 | -- |
| Sapling & seedling | 14.1 | -- | 11.5 | -- | -- | -- | -- | 2.6 | -- | -- | -- | -- | -- | -- | -- |
| All stands | 54.7 | -- | 11.5 | -- | 2.8 | 1.5 | -- | 2.6 | -- | 6.4 | 2.8 | 13.5 | 2.1 | 11.5 | -- |
| Shortleaf pine | | | | | | | | | | | | | | | |
| Sawtimber | 7.6 | -- | -- | -- | -- | -- | -- | -- | 0.5 | 2.3 | -- | 2.9 | 1.9 | -- | -- |
| Poletimber | 14.5 | -- | -- | -- | -- | -- | -- | -- | 1.6 | -- | 1.6 | 11.3 | -- | -- | -- |
| Sapling & seedling | 1.8 | -- | -- | -- | -- | 1.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 23.9 | -- | -- | -- | -- | 1.8 | -- | -- | 2.1 | 2.3 | 1.6 | 14.2 | 1.9 | -- | -- |
| Scotch-Virginia pine | | | | | | | | | | | | | | | |
| Sawtimber | 24.4 | -- | -- | -- | -- | -- | -- | -- | -- | 7.7 | -- | 10.8 | 5.9 | -- | -- |
| Poletimber | 14.1 | -- | -- | -- | -- | 2.3 | -- | -- | 3.9 | 1.7 | 1.9 | 1.5 | -- | 2.8 | -- |
| Sapling & seedling | 32.1 | -- | 4.6 | 1.8 | 2.1 | -- | 5.4 | 4.6 | 3.3 | -- | -- | 2.0 | -- | -- | 8.3 |
| All stands | 70.6 | -- | 4.6 | 1.8 | 2.1 | 2.3 | 5.4 | 4.6 | 7.2 | 9.4 | 1.9 | 14.3 | 5.9 | 2.8 | 8.3 |
| Oak-pine | | | | | | | | | | | | | | | |
| Sawtimber | 44.6 | -- | -- | -- | -- | 1.9 | 3.9 | 4.1 | 2.3 | 13.9 | 1.9 | 13.0 | 3.6 | -- | -- |
| Poletimber | 25.8 | -- | -- | -- | -- | -- | 2.0 | 5.0 | 8.5 | 2.1 | -- | 4.4 | 3.8 | -- | -- |
| Sapling & seedling | 33.8 | 2.1 | 1.8 | -- | 7.8 | 2.6 | 6.1 | 4.3 | 5.2 | 3.9 | -- | -- | -- | -- | -- |
| All stands | 104.2 | 2.1 | 1.8 | -- | 7.8 | 4.5 | 12.0 | 13.4 | 16.0 | 19.9 | 1.9 | 17.4 | 7.4 | -- | -- |
| Oak-hickory | | | | | | | | | | | | | | | |
| Sawtimber | 975.9 | -- | 2.1 | 2.2 | 4.5 | 21.7 | 54.1 | 42.0 | 106.5 | 203.9 | 130.9 | 292.9 | 105.0 | 8.2 | 1.9 |
| Poletimber | 189.8 | -- | -- | 2.3 | -- | 4.6 | 24.3 | 30.6 | 41.0 | 27.4 | 22.4 | 27.6 | 9.6 | -- | -- |
| Sapling & seedling | 205.1 | 9.4 | 27.8 | 26.0 | 17.6 | 26.9 | 47.2 | 24.2 | 10.7 | 11.2 | -- | 2.0 | -- | -- | 2.1 |
| All stands | 1,370.8 | 9.4 | 29.9 | 30.5 | 22.1 | 53.2 | 125.6 | 96.8 | 158.2 | 242.5 | 153.3 | 322.5 | 114.6 | 8.2 | 4.0 |
| Chestnut-scarlet oak | | | | | | | | | | | | | | | |
| Sawtimber | 46.1 | -- | -- | 1.2 | -- | -- | 2.1 | 2.1 | -- | 13.7 | 7.3 | 15.9 | 3.8 | -- | -- |
| Poletimber | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 46.1 | -- | -- | 1.2 | -- | -- | 2.1 | 2.1 | -- | 13.7 | 7.3 | 15.9 | 3.8 | -- | -- |
| Sassafras-persimmon | | | | | | | | | | | | | | | |
| Sawtimber | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Poletimber | 4.2 | -- | -- | -- | -- | -- | -- | -- | 1.9 | -- | -- | 2.3 | -- | -- | -- |
| Sapling & seedling | 15.6 | 4.7 | 2.1 | 2.2 | -- | 1.9 | -- | 2.6 | -- | -- | -- | -- | -- | -- | 2.1 |
| All stands | 19.8 | 4.7 | 2.1 | 2.2 | -- | 1.9 | -- | 2.6 | 1.9 | -- | -- | 2.3 | -- | -- | 2.1 |
| Oak-gum | | | | | | | | | | | | | | | |
| Sawtimber | 29.7 | -- | -- | -- | 2.2 | -- | -- | -- | 1.5 | -- | 8.0 | 11.7 | 6.3 | -- | -- |
| Poletimber | 4.6 | -- | -- | -- | -- | -- | -- | -- | -- | 2.3 | -- | 2.3 | -- | -- | -- |
| Sapling & seedling | 17.4 | 1.2 | 4.1 | 2.1 | 2.5 | 2.7 | 2.1 | 2.7 | -- | -- | -- | -- | -- | -- | -- |
| All stands | 51.7 | 1.2 | 4.1 | 2.1 | 4.7 | 2.7 | 2.1 | 2.7 | 1.5 | 2.3 | 8.0 | 14.0 | 6.3 | -- | -- |

(Table 26 continued on next page)

(Table 26 continued)

| Forest type and stand-size class | All classes | Basal-area class (square feet per acre) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | 101-120 | 121-150 | 151-180 | 181+ |
| Lowland oak | | | | | | | | | | | | | | | |
| Sawtimber | 25.3 | -- | -- | -- | -- | 2.4 | -- | 2.4 | -- | 4.1 | -- | 16.4 | -- | -- | -- |
| Poletimber | 3.6 | -- | -- | -- | -- | -- | -- | 2.4 | 1.2 | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | 2.0 | -- | -- | 2.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 30.9 | -- | -- | 2.0 | -- | 2.4 | -- | 4.8 | 1.2 | 4.1 | -- | 16.4 | -- | -- | -- |
| Elm-ash-soft maple | | | | | | | | | | | | | | | |
| Sawtimber | 495.4 | -- | -- | 8.4 | 16.9 | 22.3 | 10.5 | 32.1 | 76.4 | 76.4 | 70.9 | 107.3 | 58.1 | 13.3 | 2.8 |
| Poletimber | 169.1 | -- | -- | 4.2 | 9.2 | 15.3 | 16.8 | 18.3 | 36.8 | 25.9 | 21.1 | 21.5 | -- | -- | -- |
| Sapling & seedling | 166.0 | 15.1 | 20.6 | 22.9 | 29.1 | 30.9 | 16.4 | 6.7 | 10.9 | 8.4 | -- | -- | -- | -- | 5.0 |
| All stands | 830.5 | 15.1 | 20.6 | 35.5 | 55.2 | 68.5 | 43.7 | 57.1 | 124.1 | 110.7 | 92.0 | 128.8 | 58.1 | 13.3 | 7.8 |
| Cottonwood | | | | | | | | | | | | | | | |
| Sawtimber | 11.7 | -- | -- | -- | 2.1 | 2.4 | -- | -- | 2.1 | -- | -- | 2.8 | 2.3 | -- | -- |
| Poletimber | 6.7 | -- | -- | -- | -- | -- | 4.6 | 2.1 | -- | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 18.4 | -- | -- | -- | 2.1 | 2.4 | 4.6 | 2.1 | 2.1 | -- | -- | 2.8 | 2.3 | -- | -- |
| Maple-beech | | | | | | | | | | | | | | | |
| Sawtimber | 692.3 | -- | -- | 4.4 | 4.9 | 24.2 | 67.2 | 44.2 | 106.5 | 105.6 | 84.3 | 175.7 | 63.8 | 11.5 | -- |
| Poletimber | 110.5 | -- | -- | -- | 2.7 | 2.1 | 10.5 | 18.3 | 20.0 | 15.8 | 6.1 | 33.0 | 2.0 | -- | -- |
| Sapling & seedling | 181.9 | 4.8 | 13.9 | 20.3 | 28.2 | 43.3 | 21.7 | 25.2 | 15.4 | -- | 2.1 | 4.8 | -- | -- | 2.2 |
| All stands | 984.7 | 4.8 | 13.9 | 24.7 | 35.8 | 69.6 | 99.4 | 87.7 | 141.9 | 121.4 | 92.5 | 213.5 | 65.8 | 11.5 | 2.2 |
| Cherry-ash-yellow-poplar | | | | | | | | | | | | | | | |
| Sawtimber | 394.7 | 2.1 | -- | 4.4 | 1.9 | 10.2 | 16.4 | 27.8 | 29.3 | 69.0 | 36.9 | 132.7 | 54.8 | 7.3 | 1.9 |
| Poletimber | 112.3 | -- | -- | 4.9 | -- | -- | 15.5 | 12.1 | 20.1 | 28.7 | 9.8 | 14.0 | 7.2 | -- | -- |
| Sapling & seedling | 142.0 | 8.5 | 21.5 | 21.6 | 17.0 | 21.6 | 22.0 | 10.7 | 7.9 | 6.8 | 2.4 | -- | -- | -- | 2.0 |
| All stands | 649.0 | 10.6 | 21.5 | 30.9 | 18.9 | 31.8 | 53.9 | 50.6 | 57.3 | 104.5 | 49.1 | 146.7 | 62.0 | 7.3 | 3.9 |
| Nonstocked | 40.5 | 6.6 | 6.7 | 8.7 | -- | 4.1 | 4.8 | -- | 1.2 | 3.9 | 2.4 | -- | -- | -- | 2.1 |
| All types | | | | | | | | | | | | | | | |
| Sawtimber | 2,770.0 | 2.1 | 2.1 | 20.6 | 32.5 | 86.6 | 154.2 | 154.7 | 325.1 | 500.7 | 340.2 | 790.1 | 305.5 | 49.0 | 6.6 |
| Poletimber | 673.5 | -- | -- | 11.4 | 14.7 | 24.3 | 73.7 | 88.8 | 135.0 | 106.2 | 65.7 | 123.4 | 24.7 | 5.6 | -- |
| Sapling & seedling | 811.8 | 45.8 | 107.9 | 98.9 | 104.3 | 131.7 | 120.9 | 83.6 | 53.4 | 30.3 | 4.5 | 8.8 | -- | -- | 21.7 |
| Nonstocked | 40.5 | 6.6 | 6.7 | 8.7 | -- | 4.1 | 4.8 | -- | 1.2 | 3.9 | 2.4 | -- | -- | -- | 2.1 |
| All stands | 4,295.8 | 54.5 | 116.7 | 139.6 | 151.5 | 246.7 | 353.6 | 327.1 | 514.7 | 641.1 | 412.8 | 922.3 | 330.2 | 54.6 | 30.4 |

Table 27.--Area of timberland by stocking class based on selected stand components and Forest Survey Unit, Indiana, 1986

(In thousand acres)

| Stocking class (percent) | Stocking classified in terms of: All live trees | Growing-stock trees | Rough and rotten trees |
|---|---|---|---|
| All Units | | | |
| 0-10 | 2.1 | 18.3 | 1,379.0 |
| 11-20 | 12.5 | 28.7 | 1,173.7 |
| 21-30 | 11.4 | 52.7 | 759.2 |
| 31-40 | 21.6 | 76.6 | 455.1 |
| 41-50 | 37.4 | 157.7 | 299.4 |
| 51-60 | 78.1 | 232.6 | 133.3 |
| 61-70 | 98.6 | 321.2 | 49.6 |
| 71-80 | 168.5 | 411.6 | 30.9 |
| 81-90 | 250.5 | 543.2 | 5.6 |
| 91-100 | 417.8 | 683.8 | 5.5 |
| 101-110 | 653.8 | 622.2 | 2.1 |
| 111-120 | 884.9 | 572.3 | 2.4 |
| 121-130 | 816.3 | 338.5 | -- |
| 131-140 | 536.7 | 172.2 | -- |
| 141-150 | 232.5 | 57.7 | -- |
| 151-160 | 70.6 | 6.5 | -- |
| 161+ | 2.5 | -- | -- |
| All classes | 4,295.8 | 4,295.8 | 4,295.8 |
| Lower Wabash Unit | | | |
| 0-10 | -- | 2.1 | 325.3 |
| 11-20 | 2.1 | -- | 257.2 |
| 21-30 | -- | 7.1 | 151.1 |
| 31-40 | 5.2 | 6.2 | 71.6 |
| 41-50 | 4.3 | 21.8 | 38.8 |
| 51-60 | 11.0 | 29.7 | 8.8 |
| 61-70 | 16.5 | 69.6 | 7.6 |
| 71-80 | 48.8 | 74.1 | -- |
| 81-90 | 32.9 | 127.1 | -- |
| 91-100 | 86.8 | 162.1 | -- |
| 101-110 | 156.7 | 130.1 | -- |
| 111-120 | 199.1 | 108.4 | -- |
| 121-130 | 171.2 | 81.4 | -- |
| 131-140 | 71.3 | 31.2 | -- |
| 141-150 | 50.5 | 9.5 | -- |
| 151-160 | 4.0 | -- | -- |
| 161+ | -- | -- | -- |
| All classes | 860.4 | 860.4 | 860.4 |

(Table 27 continued on next page)

(Table 27 continued)

| Stocking class (percent) | Stocking classified in terms of: All live trees | Growing-stock trees | Rough and rotten trees |
|---|---|---|---|
| Knobs Unit | | | |
| 0-10 | 2.1 | 5.9 | 767.9 |
| 11-20 | 3.8 | 3.9 | 562.2 |
| 21-30 | 4.3 | 9.0 | 248.9 |
| 31-40 | 1.8 | 16.5 | 99.6 |
| 41-50 | 21.3 | 35.6 | 46.1 |
| 51-60 | 21.9 | 47.5 | 10.5 |
| 61-70 | 24.6 | 72.7 | 5.9 |
| 71-80 | 51.7 | 147.2 | -- |
| 81-90 | 108.5 | 200.2 | -- |
| 91-100 | 158.6 | 283.9 | -- |
| 101-110 | 269.6 | 290.5 | -- |
| 111-120 | 375.6 | 319.1 | -- |
| 121-130 | 356.7 | 182.0 | -- |
| 131-140 | 242.9 | 95.1 | -- |
| 141-150 | 69.8 | 25.5 | -- |
| 151-160 | 27.8 | 6.5 | -- |
| 161+ | 0.1 | -- | -- |
| All classes | 1,741.1 | 1,741.1 | 1,741.1 |
| Upland Flats Unit | | | |
| 0-10 | -- | 1.7 | 102.1 |
| 11-20 | 2.1 | 8.9 | 111.3 |
| 21-30 | 3.8 | 10.5 | 144.3 |
| 31-40 | 6.2 | 19.1 | 99.0 |
| 41-50 | 5.7 | 16.7 | 49.9 |
| 51-60 | 5.7 | 67.2 | 34.7 |
| 61-70 | 14.8 | 59.4 | 10.9 |
| 71-80 | 18.8 | 57.0 | 9.7 |
| 81-90 | 52.1 | 80.3 | 4.4 |
| 91-100 | 39.7 | 67.4 | 2.7 |
| 101-110 | 83.1 | 67.1 | 2.1 |
| 111-120 | 98.1 | 56.1 | -- |
| 121-130 | 115.2 | 30.0 | -- |
| 131-140 | 73.5 | 22.3 | -- |
| 141-150 | 38.8 | 7.4 | -- |
| 151-160 | 13.5 | -- | -- |
| 161+ | -- | -- | -- |
| All classes | 571.1 | 571.1 | 571.1 |
| Northern Unit | | | |
| 0-10 | -- | 8.6 | 183.7 |
| 11-20 | 4.5 | 15.9 | 243.0 |
| 21-30 | 3.3 | 26.1 | 214.9 |
| 31-40 | 8.4 | 34.8 | 184.9 |
| 41-50 | 6.1 | 83.6 | 164.6 |
| 51-60 | 39.5 | 88.2 | 79.3 |
| 61-70 | 42.7 | 119.5 | 25.2 |
| 71-80 | 49.2 | 133.3 | 21.2 |
| 81-90 | 57.0 | 135.6 | 1.2 |
| 91-100 | 132.7 | 170.4 | 2.8 |
| 101-110 | 144.4 | 134.5 | -- |
| 111-120 | 212.1 | 88.7 | 2.4 |
| 121-130 | 173.2 | 45.1 | -- |
| 131-140 | 149.0 | 23.6 | -- |
| 141-150 | 73.4 | 15.3 | -- |
| 151-160 | 25.3 | -- | -- |
| 161+ | 2.4 | -- | -- |
| All classes | 1,123.2 | 1,123.2 | 1,123.2 |

Table 28.--Area of timberland in plantations by forest type and stand-age class, and Forest Survey Unit, 1986

(In thousand acres)

| Unit and forest type | All ages | Stand-age class (years) 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 50-60 | 61-70 |
|---|---|---|---|---|---|---|---|---|
| All Units | | | | | | | | |
| Jack-red-white pine | 40.2 | 11.5 | 5.4 | 9.8 | 13.5 | -- | -- | -- |
| Shortleaf pine | 20.7 | 1.8 | 3.2 | -- | 13.4 | 0.4 | 1.9 | -- |
| Scotch-Virginia pine | 34.2 | 3.1 | 7.8 | 2.3 | 12.8 | 6.3 | -- | 1.9 |
| Oak-gum | 1.5 | -- | -- | -- | -- | -- | -- | 1.5 |
| Lowland oak | 1.2 | -- | -- | 1.2 | -- | -- | -- | -- |
| Elm-ash-soft-maple | 3.7 | -- | -- | 3.7 | -- | -- | -- | -- |
| Cherry-ash-yellow-poplar | 3.7 | -- | 2.1 | 1.6 | -- | -- | -- | -- |
| All types | 105.2 | 16.4 | 18.5 | 18.6 | 39.7 | 6.7 | 1.9 | 3.4 |
| Lower Wabash Unit | | | | | | | | |
| Jack-red-white pine | 9.9 | -- | -- | 2.3 | 7.6 | -- | -- | -- |
| Shortleaf pine | 3.7 | -- | 3.2 | -- | 0.5 | -- | -- | -- |
| Scotch-Virginia pine | 6.7 | 3.1 | 2.1 | -- | 1.5 | -- | -- | -- |
| Oak-gum | 1.5 | -- | -- | -- | -- | -- | -- | 1.5 |
| Elm-ash-soft maple | 3.7 | -- | -- | 3.7 | -- | -- | -- | -- |
| Cherry-ash-yellow-poplar | 1.6 | -- | -- | 1.6 | -- | -- | -- | -- |
| All types | 27.1 | 3.1 | 5.3 | 7.6 | 9.6 | -- | -- | 1.5 |
| Knobs Unit | | | | | | | | |
| Jack-red-white pine | 23.7 | 11.5 | 2.6 | 7.5 | 2.1 | -- | -- | -- |
| Shortleaf pine | 17.0 | 1.8 | -- | -- | 12.9 | 0.4 | 1.9 | -- |
| Scotch-Virginia pine | 21.9 | -- | 5.7 | 2.3 | 5.7 | 6.3 | -- | 1.9 |
| All types | 62.6 | 13.3 | 8.3 | 9.8 | 20.7 | 6.7 | 1.9 | 1.9 |
| Upland Flats Unit | | | | | | | | |
| Jack-red-white pine | 3.8 | -- | -- | -- | 3.8 | -- | -- | -- |
| Cherry-ash-yellow-poplar | 2.1 | -- | 2.1 | -- | -- | -- | -- | -- |
| All types | 5.9 | -- | 2.1 | -- | 3.8 | -- | -- | -- |
| Northern Unit | | | | | | | | |
| Jack-red-white pine | 2.8 | -- | 2.8 | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 5.6 | -- | -- | -- | 5.6 | -- | -- | -- |
| Lowland oak | 1.2 | -- | -- | 1.2 | -- | -- | -- | -- |
| All types | 9.6 | -- | 2.8 | 1.2 | 5.6 | -- | -- | -- |

Table 29.--Area of reserved timberland by ownership class and Forest Survey Unit, Indiana, 1986

(In thousand acres)

| Ownership class | All Units | Forest Survey Unit | | | |
|---|---|---|---|---|---|
| | | Lower Wabash Unit | Knobs Unit | Upland Flats Unit | Northern Unit |
| National forest | 12.4 | -- | 12.4 | -- | -- |
| Miscellaneous federal | 16.7 | -- | -- | 15.9 | 0.8 |
| State | 92.3 | 14.5 | 47.4 | 14.4 | 16.0 |
| County and municipal | 11.4 | -- | 2.1 | -- | 9.3 |
| Forest industry | -- | -- | -- | -- | -- |
| Farmer | -- | -- | -- | -- | -- |
| Misc. private-corp. | 9.1 | 2.0 | 2.3 | 2.8 | 2.0 |
| Misc. private-indiv. | 1.5 | 0.7 | -- | -- | 0.8 |
| All owners | 143.4 | 17.2 | 64.2 | 33.1 | 28.9 |

Table 30.--Area of reserved timberland by forest type and Forest Survey Unit, Indiana, 1986

(In thousand acres)

| Ownership class | All Units | Forest Survey Unit | | | |
|---|---|---|---|---|---|
| | | Lower Wabash Unit | Knobs Unit | Upland Flats Unit | Northern Unit |
| Jack-red-white pine | 6.8 | 2.1 | -- | 4.7 | -- |
| Shortleaf pine | 1.6 | -- | -- | 1.6 | -- |
| Scotch-Virginia pine | -- | -- | -- | -- | -- |
| Oak-pine | -- | -- | -- | -- | -- |
| Oak-hickory | 79.8 | 12.3 | 45.5 | 10.0 | 12.0 |
| Chestnut-scarlet oak | -- | -- | -- | -- | -- |
| Sassafras-persimmon | 4.4 | -- | 4.4 | -- | -- |
| Oak-gum | -- | -- | -- | -- | -- |
| Lowland oak | -- | -- | -- | -- | -- |
| Elm-ash-soft maple | 9.3 | 2.8 | 4.1 | 1.6 | 0.8 |
| Cottonwood | -- | -- | -- | -- | -- |
| Maple-beech | 39.4 | -- | 10.2 | 15.2 | 14.0 |
| Cherry-ash-yellow-poplar | 2.1 | -- | -- | -- | 2.1 |
| Nonstocked | -- | -- | -- | -- | -- |
| All types | 143.4 | 17.2 | 64.2 | 33.1 | 28.9 |

Table 31.--Area of nonforest land with trees and by land use, forest type, and Forest Survey Unit, Indiana, 1986

(In thousand acres)

| Unit and land use | All types | Forest type | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jack-red-white pine | Short-leaf pine | Scotch-Virginia pine | Oak-pine | Oak-hickory | Chestnut-scarlet oak | Sassafras-persimmon | Oak-gum | Lowland oak | Elm-ash-soft maple | Cotton-wood | Maple-beech | Cherry-ash-yellow-poplar | Non-stocked |
| All Units | | | | | | | | | | | | | | | |
| Cropland | 78.1 | -- | -- | -- | -- | 37.1 | -- | -- | -- | 2.0 | 21.1 | -- | 10.4 | 7.5 | -- |
| Improved pasture | 149.9 | -- | -- | -- | 8.2 | 68.8 | -- | 1.9 | -- | 2.1 | 22.0 | -- | 8.1 | 20.0 | 18.8 |
| Wooded strips | 111.7 | -- | -- | -- | -- | 35.5 | -- | -- | -- | -- | 43.8 | 2.4 | 20.6 | 9.4 | -- |
| Idle farmland | 24.4 | -- | -- | -- | -- | 5.9 | -- | -- | -- | -- | 8.1 | -- | 8.3 | -- | 2.1 |
| Marsh | 12.1 | -- | -- | -- | -- | 2.8 | -- | -- | -- | -- | 7.4 | -- | -- | -- | 1.9 |
| Windbreaks | 40.2 | -- | -- | -- | -- | 24.4 | -- | 3.6 | -- | -- | 8.0 | -- | 4.2 | -- | -- |
| Wooded pasture | 120.0 | -- | -- | 3.9 | 3.9 | 15.6 | 2.0 | -- | 2.1 | 2.8 | 19.0 | -- | 20.4 | 22.0 | 28.3 |
| Urban forest | 117.0 | -- | -- | -- | -- | 71.8 | -- | -- | -- | -- | 32.5 | -- | 12.7 | -- | -- |
| Urban and other | 274.6 | 4.2 | -- | -- | -- | 161.7 | -- | -- | -- | -- | 57.8 | 2.8 | 38.9 | 9.2 | -- |
| Total | 928.0 | 4.2 | -- | 3.9 | 12.1 | 423.6 | 2.0 | 5.5 | 2.1 | 6.9 | 219.7 | 5.2 | 123.6 | 68.1 | 51.1 |
| Lower Wabash Unit | | | | | | | | | | | | | | | |
| Cropland | 22.9 | -- | -- | -- | -- | 7.2 | -- | -- | -- | 2.0 | 8.0 | -- | 2.0 | 3.7 | -- |
| Improved pasture | 33.3 | -- | -- | -- | -- | 22.3 | -- | -- | -- | -- | 2.1 | -- | 2.0 | 2.1 | 4.8 |
| Wooded strips | 31.3 | -- | -- | -- | -- | 16.9 | -- | -- | -- | -- | 8.0 | -- | 2.1 | 4.3 | -- |
| Idle farmland | 4.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.1 | -- | -- |
| Marsh | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Windbreaks | 12.1 | -- | -- | -- | -- | 12.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Wooded pasture | 24.4 | -- | -- | -- | -- | 2.8 | 2.0 | -- | 2.1 | -- | 7.4 | -- | 2.0 | 8.1 | -- |
| Urban forest | 6.5 | -- | -- | -- | -- | 5.5 | -- | -- | -- | -- | 0.5 | -- | 0.5 | -- | -- |
| Urban and other | 47.0 | 4.2 | -- | -- | -- | 33.7 | -- | -- | -- | -- | 5.1 | -- | 4.0 | -- | -- |
| Total | 181.6 | 4.2 | -- | -- | -- | 100.5 | 2.0 | -- | 2.1 | 2.0 | 31.1 | -- | 16.7 | 18.2 | 4.8 |
| Knobs Unit | | | | | | | | | | | | | | | |
| Cropland | 19.6 | -- | -- | -- | -- | 11.5 | -- | -- | -- | -- | 4.3 | -- | -- | 3.8 | -- |
| Improved pasture | 52.2 | -- | -- | -- | 3.9 | 24.2 | -- | 1.9 | -- | 2.1 | 1.8 | -- | 2.1 | 3.9 | 12.3 |
| Wooded strips | 28.0 | -- | -- | -- | -- | 7.8 | -- | -- | -- | -- | 13.9 | -- | 6.3 | -- | -- |
| Idle farmland | 13.8 | -- | -- | -- | -- | 5.9 | -- | -- | -- | -- | 5.8 | -- | -- | -- | 2.1 |
| Marsh | 1.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.9 |
| Windbreaks | 15.2 | -- | -- | -- | -- | 4.0 | -- | 3.6 | -- | -- | 5.7 | -- | 1.9 | -- | -- |
| Wooded pasture | 35.0 | -- | -- | 1.8 | 2.0 | 3.5 | -- | -- | -- | -- | 1.7 | -- | 6.2 | 11.8 | 8.0 |
| Urban forest | 16.2 | -- | -- | -- | -- | 12.0 | -- | -- | -- | -- | 2.0 | -- | 2.2 | -- | -- |
| Urban and other | 61.4 | -- | -- | -- | -- | 32.1 | -- | -- | -- | -- | 1.3 | -- | 23.9 | 4.1 | -- |
| Total | 243.3 | -- | -- | 1.8 | 5.9 | 101.0 | -- | 5.5 | -- | 2.1 | 36.5 | -- | 42.6 | 23.6 | 24.3 |

(Table 31 continued on next page)

(Table 31 continued)

| Unit and land use | All types | Forest type | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jack-red-white pine | Short-leaf pine | Scotch-Virginia pine | Oak-pine | Oak-hickory | Chestnut-scarlet oak | Sassafras-persimmon | Oak-gum | Lowland oak | Elm-ash-soft maple | Cotton-wood | Maple-beech | Cherry-ash-yellow-poplar | Non-stocked |
| Upland Flats | | | | | | | | | | | | | | | |
| Cropland | 10.1 | -- | -- | -- | -- | 2.1 | -- | -- | -- | -- | 4.2 | -- | 3.8 | -- | -- |
| Improved pasture | 28.8 | -- | -- | -- | 4.3 | 8.5 | -- | -- | -- | -- | 8.4 | -- | 1.7 | 4.2 | 1.7 |
| Wooded strips | 14.3 | -- | -- | -- | -- | 3.8 | -- | -- | -- | -- | 6.1 | -- | 1.7 | 2.7 | -- |
| Idle farmland | 2.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.1 | -- | -- |
| Marsh | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Windbreaks | 1.7 | -- | -- | -- | -- | 1.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Wooded pasture | 29.4 | -- | -- | 2.1 | 1.9 | 4.2 | -- | -- | -- | -- | 4.3 | -- | 8.9 | -- | 8.0 |
| Urban forest | 4.9 | -- | -- | -- | -- | 0.2 | -- | -- | -- | -- | 4.7 | -- | -- | -- | -- |
| Urban and other | 27.0 | -- | -- | -- | -- | 9.9 | -- | -- | -- | -- | 7.9 | -- | 9.2 | -- | -- |
| Total | 118.3 | -- | -- | 2.1 | 6.2 | 30.4 | -- | -- | -- | -- | 35.6 | -- | 27.4 | 6.9 | 9.7 |
| Northern | | | | | | | | | | | | | | | |
| Cropland | 25.5 | -- | -- | -- | -- | 16.3 | -- | -- | -- | -- | 4.6 | -- | 4.6 | -- | -- |
| Improved pasture | 35.6 | -- | -- | -- | -- | 13.8 | -- | -- | -- | -- | 9.7 | -- | 2.3 | 9.8 | -- |
| Wooded strips | 38.1 | -- | -- | -- | -- | 7.0 | -- | -- | -- | -- | 15.8 | 2.4 | 10.5 | 2.4 | -- |
| Idle farmland | 4.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.3 | -- | 2.1 | -- | -- |
| Marsh | 10.2 | -- | -- | -- | -- | 2.8 | -- | -- | -- | -- | 7.4 | -- | -- | -- | -- |
| Windbreaks | 11.2 | -- | -- | -- | -- | 6.6 | -- | -- | -- | -- | 2.3 | -- | 2.3 | -- | -- |
| Wooded pasture | 31.2 | -- | -- | -- | -- | 5.1 | -- | -- | -- | 2.8 | 5.6 | -- | 3.3 | 2.1 | 12.3 |
| Urban forest | 89.4 | -- | -- | -- | -- | 54.1 | -- | -- | -- | -- | 25.3 | -- | 10.0 | -- | -- |
| Urban and other | 139.2 | -- | -- | -- | -- | 86.0 | -- | -- | -- | -- | 43.5 | 2.8 | 1.8 | 5.1 | -- |
| Total | 384.8 | -- | -- | -- | -- | 191.7 | -- | -- | -- | 2.8 | 116.5 | 5.2 | 36.9 | 19.4 | 12.3 |

Table 32.--Number of all live trees on timberland by species group and diameter class, Indiana, 1986

(In thousand trees)

| Species group | All classes | Diameter class (inches at breast height) 1.0-2.9 | 3.0-4.9 | 5.0-6.9 | 7.0-8.9 | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-22.9 | 23.0-28.9 | 29.0-38.9 | 39.0+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Softwoods | | | | | | | | | | | | | | | |
| Jack pine | 1,597 | 318 | 285 | 309 | 404 | 184 | 75 | 6 | 10 | 3 | 3 | -- | -- | -- | -- |
| Red pine | 1,421 | -- | -- | 546 | 619 | 244 | 12 | -- | -- | -- | -- | -- | -- | -- | -- |
| White pine | 14,561 | 5,598 | 4,095 | 1,185 | 1,701 | 1,156 | 423 | 313 | 80 | 10 | -- | -- | -- | -- | -- |
| Shortleaf pine | 4,370 | 489 | 228 | 931 | 1,483 | 907 | 236 | 87 | 9 | -- | -- | -- | -- | -- | -- |
| Other yellow pines | 16,293 | 6,522 | 3,093 | 2,787 | 1,413 | 1,303 | 621 | 434 | 97 | 4 | 9 | 6 | 4 | -- | -- |
| Tamarack | 330 | 72 | -- | 216 | -- | 31 | -- | 11 | -- | -- | -- | -- | -- | -- | -- |
| Baldcypress | 506 | -- | 45 | 47 | 127 | 143 | 49 | 58 | 21 | 15 | -- | -- | -- | 1 | -- |
| Eastern redcedar | 71,111 | 48,414 | 13,206 | 5,451 | 2,280 | 1,064 | 351 | 207 | 107 | 29 | -- | -- | 2 | -- | -- |
| Other softwoods | 3,696 | 675 | 1,062 | 1,260 | 614 | 85 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 113,885 | 62,088 | 22,014 | 12,732 | 8,641 | 5,117 | 1,767 | 1,116 | 324 | 61 | 12 | 6 | 6 | 1 | -- |
| Hardwoods | | | | | | | | | | | | | | | |
| Select white oak | 61,641 | 17,616 | 9,216 | 5,809 | 6,617 | 5,343 | 4,666 | 3,801 | 3,017 | 2,114 | 1,400 | 885 | 860 | 257 | 40 |
| Other white oak | 10,996 | 2,382 | 1,428 | 946 | 1,296 | 985 | 1,287 | 1,087 | 845 | 448 | 180 | 69 | 43 | -- | -- |
| Select red oak | 22,850 | 6,942 | 2,835 | 2,221 | 2,122 | 1,622 | 1,420 | 1,793 | 1,158 | 953 | 683 | 401 | 491 | 187 | 22 |
| Other red oak | 58,408 | 24,054 | 7,284 | 5,496 | 4,184 | 3,897 | 3,579 | 2,835 | 2,632 | 1,739 | 1,180 | 598 | 751 | 165 | 14 |
| Select hickory | 51,215 | 19,044 | 9,609 | 6,134 | 5,234 | 4,332 | 2,625 | 1,986 | 1,201 | 591 | 263 | 107 | 84 | 5 | -- |
| Other hickory | 58,996 | 23,322 | 9,801 | 7,312 | 6,691 | 4,334 | 3,374 | 1,996 | 1,083 | 541 | 291 | 125 | 114 | 12 | -- |
| Basswood | 24,442 | 14,454 | 4,044 | 2,024 | 1,266 | 934 | 479 | 398 | 295 | 248 | 99 | 82 | 90 | 26 | 3 |
| Beech | 41,502 | 24,861 | 5,526 | 2,779 | 1,701 | 1,310 | 1,185 | 870 | 680 | 710 | 532 | 416 | 691 | 227 | 14 |
| Hard maple | 277,041 | 181,356 | 44,628 | 20,071 | 11,396 | 6,921 | 4,759 | 3,095 | 1,968 | 1,147 | 696 | 477 | 417 | 105 | 5 |
| Soft maple | 92,445 | 51,126 | 16,809 | 8,298 | 5,545 | 3,493 | 2,671 | 1,532 | 1,058 | 697 | 412 | 285 | 384 | 102 | 33 |
| Elm | 238,137 | 159,126 | 45,603 | 16,918 | 8,425 | 4,240 | 2,039 | 945 | 459 | 183 | 88 | 40 | 62 | 9 | -- |
| Ash | 127,231 | 68,463 | 18,843 | 13,246 | 9,913 | 6,340 | 4,124 | 2,625 | 1,634 | 950 | 464 | 256 | 297 | 68 | 8 |
| Sycamore | 16,058 | 3,573 | 1,941 | 2,700 | 1,605 | 1,814 | 1,267 | 967 | 637 | 464 | 409 | 222 | 338 | 112 | 9 |
| Cottonwood | 7,230 | 1,401 | 1,263 | 552 | 731 | 676 | 537 | 624 | 383 | 348 | 175 | 115 | 284 | 120 | 21 |
| Willow | 13,242 | 10,023 | 1,113 | 740 | 458 | 312 | 181 | 133 | 99 | 53 | 72 | 14 | 29 | 13 | 2 |
| Hackberry | 32,530 | 20,157 | 5,460 | 2,960 | 1,409 | 983 | 658 | 349 | 245 | 139 | 76 | 47 | 42 | 2 | 3 |
| Aspen | 6,616 | 2,601 | 1,356 | 830 | 475 | 479 | 341 | 272 | 195 | 48 | 10 | 6 | 2 | -- | 1 |
| Birch | 7,362 | 4,059 | 1,728 | 719 | 336 | 261 | 47 | 105 | 69 | 29 | 4 | -- | 5 | -- | -- |
| Sweetgum | 21,727 | 12,105 | 4,059 | 1,550 | 1,375 | 930 | 759 | 463 | 211 | 123 | 77 | 29 | 28 | 15 | 3 |
| Tupelo | 30,010 | 20,358 | 4,695 | 1,625 | 1,222 | 957 | 442 | 324 | 141 | 116 | 53 | 29 | 45 | 3 | -- |
| Black cherry | 70,926 | 43,206 | 13,362 | 5,129 | 3,671 | 2,188 | 1,673 | 649 | 477 | 301 | 130 | 80 | 42 | 18 | -- |
| Black walnut | 25,975 | 7,737 | 4,605 | 3,323 | 3,655 | 2,357 | 1,728 | 1,060 | 813 | 386 | 178 | 62 | 56 | 12 | 3 |
| Butternut | 531 | 123 | -- | 102 | 67 | 45 | 90 | 34 | 57 | 5 | 5 | -- | 3 | -- | -- |
| Yellow-poplar | 59,731 | 27,516 | 8,868 | 5,405 | 3,832 | 3,520 | 2,668 | 2,501 | 1,910 | 1,590 | 864 | 494 | 492 | 65 | 6 |
| Persimmon | 12,415 | 5,541 | 3,333 | 2,232 | 840 | 317 | 104 | 38 | 6 | 4 | -- | -- | -- | -- | -- |
| Sassafras | 127,639 | 72,756 | 30,252 | 13,561 | 6,361 | 2,455 | 1,168 | 467 | 346 | 164 | 62 | 14 | 31 | 2 | -- |
| Other hardwoods | 279,714 | 211,542 | 43,584 | 13,014 | 5,314 | 2,685 | 1,510 | 979 | 478 | 314 | 120 | 87 | 78 | 6 | 3 |
| Noncommercial spp. | 207,195 | 164,448 | 31,416 | 7,775 | 2,199 | 782 | 255 | 165 | 83 | 43 | 14 | 5 | 4 | 6 | -- |
| Total | 1,983,805 | 1,199,892 | 332,661 | 153,471 | 97,940 | 64,512 | 45,636 | 32,093 | 22,180 | 14,448 | 8,537 | 4,945 | 5,763 | 1,537 | 190 |
| All species | 2,097,690 | 1,261,980 | 354,675 | 166,203 | 106,581 | 69,629 | 47,403 | 33,209 | 22,504 | 14,509 | 8,549 | 4,951 | 5,769 | 1,538 | 190 |

Table 33.--Number of growing stock trees on timberland by species group and diameter class, Indiana, 1986

(In thousand trees)

| Species group | All classes | Diameter class (inches at breast height) 1.0-2.9 | 3.0-4.9 | 5.0-6.9 | 7.0-8.9 | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-22.9 | 23.0-28.9 | 29.0-38.9 | 39.0+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Softwoods | | | | | | | | | | | | | | | |
| Jack pine | 1,512 | 318 | 285 | 260 | 404 | 148 | 75 | 6 | 10 | 3 | 3 | -- | -- | -- | -- |
| Red pine | 1,349 | -- | -- | 504 | 589 | 244 | 12 | -- | -- | -- | -- | -- | -- | -- | -- |
| White pine | 14,440 | 5,541 | 4,095 | 1,141 | 1,690 | 1,147 | 423 | 313 | 80 | 10 | -- | -- | -- | -- | -- |
| Shortleaf pine | 4,133 | 489 | 228 | 886 | 1,426 | 806 | 206 | 83 | 9 | -- | -- | -- | -- | -- | -- |
| Other yellow pines | 15,966 | 6,522 | 3,027 | 2,735 | 1,356 | 1,186 | 606 | 424 | 90 | 4 | 9 | 3 | 4 | -- | -- |
| Tamarack | 330 | 72 | -- | 216 | -- | 31 | -- | 11 | -- | -- | -- | -- | -- | -- | -- |
| Baldcypress | 505 | -- | 45 | 47 | 127 | 143 | 49 | 58 | 21 | 15 | -- | -- | -- | -- | -- |
| Eastern redcedar | 69,318 | 48,006 | 13,011 | 5,243 | 1,890 | 717 | 253 | 141 | 45 | 10 | -- | -- | 2 | -- | -- |
| Other softwoods | 3,186 | 675 | 810 | 1,114 | 519 | 68 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 110,739 | 61,623 | 21,501 | 12,146 | 8,001 | 4,490 | 1,624 | 1,036 | 255 | 42 | 12 | 3 | 6 | -- | -- |
| Hardwoods | | | | | | | | | | | | | | | |
| Select white oak | 57,924 | 17,544 | 8,757 | 5,227 | 6,253 | 4,947 | 4,142 | 3,403 | 2,831 | 1,941 | 1,290 | 759 | 668 | 150 | 12 |
| Other white oak | 10,468 | 2,382 | 1,428 | 902 | 1,196 | 948 | 1,154 | 995 | 792 | 406 | 168 | 63 | 34 | -- | -- |
| Select red oak | 21,855 | 6,942 | 2,772 | 2,123 | 2,086 | 1,479 | 1,349 | 1,644 | 1,059 | 881 | 612 | 376 | 398 | 127 | 7 |
| Other red oak | 55,937 | 24,054 | 7,215 | 5,251 | 3,768 | 3,715 | 3,231 | 2,577 | 2,364 | 1,542 | 1,003 | 512 | 602 | 98 | 5 |
| Select hickory | 49,415 | 19,044 | 9,132 | 5,967 | 4,918 | 4,191 | 2,460 | 1,786 | 1,042 | 506 | 222 | 88 | 55 | 4 | -- |
| Other hickory | 56,897 | 23,259 | 9,546 | 6,976 | 6,292 | 4,139 | 3,052 | 1,747 | 949 | 511 | 241 | 102 | 78 | 5 | -- |
| Basswood | 22,448 | 14,397 | 3,501 | 1,429 | 985 | 751 | 376 | 351 | 264 | 189 | 76 | 74 | 49 | 6 | -- |
| Beech | 37,349 | 24,363 | 5,049 | 2,537 | 1,344 | 973 | 864 | 579 | 496 | 374 | 315 | 210 | 215 | 30 | -- |
| Hard maple | 267,805 | 180,525 | 43,542 | 17,965 | 10,261 | 6,079 | 3,805 | 2,332 | 1,525 | 761 | 487 | 303 | 178 | 40 | 2 |
| Soft maple | 85,004 | 50,844 | 15,369 | 6,607 | 4,551 | 2,892 | 1,622 | 1,152 | 767 | 488 | 277 | 147 | 221 | 60 | 7 |
| Elm | 227,516 | 158,451 | 42,357 | 13,803 | 6,681 | 3,511 | 1,374 | 710 | 377 | 128 | 64 | 21 | 33 | 6 | -- |
| Ash | 119,514 | 68,355 | 17,553 | 11,575 | 8,378 | 5,417 | 3,210 | 2,153 | 1,367 | 722 | 371 | 187 | 191 | 34 | 1 |
| Sycamore | 15,043 | 3,573 | 1,941 | 2,587 | 1,453 | 1,633 | 1,123 | 840 | 583 | 434 | 335 | 201 | 255 | 78 | 7 |
| Cottonwood | 6,591 | 1,401 | 1,119 | 503 | 635 | 589 | 483 | 535 | 378 | 338 | 145 | 99 | 260 | 91 | 15 |
| Willow | 12,128 | 10,023 | 981 | 513 | 214 | 158 | 47 | 67 | 55 | 11 | 51 | 6 | 2 | -- | -- |
| Hackberry | 30,277 | 19,749 | 5,043 | 2,268 | 1,200 | 770 | 554 | 285 | 173 | 116 | 63 | 37 | 19 | -- | -- |
| Aspen | 6,396 | 2,601 | 1,356 | 773 | 412 | 407 | 331 | 254 | 195 | 48 | 10 | 6 | 2 | -- | 1 |
| Birch | 7,228 | 4,059 | 1,692 | 673 | 336 | 246 | 24 | 105 | 69 | 17 | 4 | -- | 3 | -- | -- |
| Sweetgum | 21,106 | 12,105 | 3,855 | 1,390 | 1,267 | 872 | 737 | 453 | 188 | 103 | 73 | 29 | 18 | 13 | 3 |
| Tupelo | 29,309 | 20,358 | 4,695 | 1,443 | 1,080 | 747 | 405 | 263 | 102 | 100 | 53 | 26 | 34 | 3 | -- |
| Black cherry | 64,177 | 43,206 | 11,685 | 3,461 | 2,290 | 1,496 | 956 | 435 | 333 | 129 | 116 | 52 | 18 | -- | -- |
| Black walnut | 22,691 | 7,737 | 4,167 | 2,740 | 2,946 | 1,814 | 1,365 | 835 | 657 | 252 | 123 | 27 | 25 | 3 | -- |
| Butternut | 387 | 123 | -- | 33 | 67 | 45 | 57 | 12 | 40 | 5 | 5 | -- | -- | -- | -- |
| Yellow-poplar | 58,682 | 27,459 | 8,733 | 5,332 | 3,712 | 3,429 | 2,474 | 2,392 | 1,880 | 1,505 | 835 | 459 | 441 | 31 | -- |
| Persimmon | 11,493 | 5,478 | 3,024 | 1,895 | 731 | 239 | 94 | 28 | -- | 4 | -- | -- | -- | -- | -- |
| Sassafras | 116,769 | 71,604 | 26,700 | 10,326 | 4,832 | 1,893 | 757 | 332 | 206 | 90 | 12 | 8 | 9 | -- | -- |
| Other hardwoods | 255,202 | 208,659 | 35,196 | 6,079 | 2,571 | 1,344 | 607 | 423 | 171 | 77 | 14 | 34 | 26 | 1 | -- |
| Total | 1,669,611 | 1,028,295 | 276,408 | 120,378 | 80,459 | 54,724 | 36,653 | 26,688 | 18,863 | 11,678 | 6,965 | 3,826 | 3,834 | 780 | 60 |
| All species | 1,780,350 | 1,089,918 | 297,909 | 132,524 | 88,460 | 59,214 | 38,277 | 27,724 | 19,118 | 11,720 | 6,977 | 3,829 | 3,840 | 780 | 60 |

Table 34.--Net volume of growing stock on timberland by species and Forest Survey Unit, 1967 and 1986

(In thousand cubic feet)

| Species group | All Units | | Lower Wabash Unit | | Knobs Unit | | Upland Flats Unit | | Northern Unit | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1967 | 1986 | 1967 | 1986 | 1967 | 1986 | 1967 | 1986 | 1967 | 1986 |
| Softwoods | | | | | | | | | | |
| Jack pine | -- | 6,119 | -- | 555 | -- | 3,468 | -- | 153 | -- | 1,943 |
| Red pine | 1,514 | 6,763 | 484 | 1,729 | -- | 700 | -- | 499 | 1,030 | 3,835 |
| White pine | 3,964 | 39,757 | 1,140 | 6,835 | 1,491 | 18,152 | -- | 6,630 | 1,333 | 8,140 |
| Shortleaf pine | 22,592 | 29,314 | 646 | 4,127 | 21,688 | 25,187 | -- | -- | 258 | -- |
| Other yellow pines | 21,425 | 46,661 | 521 | 7,136 | 20,518 | 38,552 | -- | 696 | 386 | 277 |
| Tamarack | 2,251 | 1,585 | -- | -- | -- | -- | -- | -- | 2,251 | 1,585 |
| Baldcypress | 14,151 | 8,788 | 14,151 | 8,503 | -- | 285 | -- | -- | -- | -- |
| Eastern redcedar | 16,110 | 52,586 | -- | 1,603 | 14,566 | 34,862 | 1,544 | 15,512 | -- | 609 |
| Other softwoods | 1,135 | 9,689 | -- | -- | 1,135 | 2,511 | -- | -- | -- | 7,178 |
| Total | 83,142 | 201,262 | 16,942 | 30,488 | 59,398 | 123,717 | 1,544 | 23,490 | 5,258 | 23,567 |
| Hardwoods | | | | | | | | | | |
| Select white oak | 598,374 | 670,710 | 104,964 | 124,886 | 333,476 | 358,681 | 57,720 | 64,215 | 102,214 | 122,928 |
| Other white oak | 138,817 | 123,634 | 3,038 | 2,475 | 126,111 | 116,406 | 721 | 830 | 8,947 | 3,923 |
| Select red oak | 265,208 | 291,878 | 55,703 | 57,012 | 118,597 | 121,917 | 24,197 | 32,119 | 66,711 | 80,830 |
| Other red oak | 442,432 | 497,322 | 86,011 | 112,967 | 242,402 | 255,746 | 30,102 | 34,480 | 83,917 | 94,129 |
| Select hickory | 234,007 | 274,705 | 66,587 | 68,745 | 100,800 | 103,846 | 13,028 | 23,526 | 53,592 | 78,588 |
| Other hickory | 247,510 | 299,253 | 63,564 | 73,384 | 139,477 | 139,132 | 17,763 | 35,055 | 26,706 | 51,682 |
| Basswood | 38,965 | 67,070 | 3,774 | 10,743 | 12,190 | 8,699 | 2,258 | 7,620 | 20,743 | 40,008 |
| Beech | 112,574 | 145,972 | 7,286 | 19,624 | 65,605 | 81,949 | 13,225 | 15,608 | 26,458 | 28,791 |
| Hard maple | 274,830 | 454,732 | 39,896 | 67,526 | 146,325 | 228,579 | 27,395 | 51,424 | 61,214 | 107,203 |
| Soft maple | 120,640 | 243,760 | 48,842 | 77,376 | 18,139 | 73,880 | 18,464 | 20,301 | 35,195 | 72,203 |
| Elm | 95,062 | 174,074 | 30,207 | 33,219 | 37,155 | 41,783 | 6,500 | 15,574 | 21,200 | 83,498 |
| Ash | 196,646 | 359,677 | 43,026 | 69,837 | 63,490 | 106,924 | 19,623 | 54,059 | 70,507 | 128,857 |
| Sycamore | 148,131 | 219,745 | 42,999 | 58,208 | 58,889 | 86,365 | 11,138 | 27,475 | 35,105 | 47,697 |
| Cottonwood | 70,408 | 129,300 | 10,574 | 33,721 | 5,980 | 15,762 | 4,870 | 5,174 | 48,984 | 74,643 |
| Willow | 17,275 | 13,501 | 5,652 | 5,586 | 2,638 | 925 | 1,522 | 439 | 7,463 | 6,551 |
| Hackberry | 24,603 | 51,859 | 4,117 | 7,643 | 5,604 | 16,890 | 3,246 | 7,085 | 11,636 | 20,241 |
| Aspen | 26,144 | 31,290 | 2,843 | 1,947 | 9,770 | 17,254 | 2,713 | 4,467 | 10,818 | 7,622 |
| Birch | 13,960 | 12,538 | 6,419 | 5,879 | 5,709 | 5,584 | -- | -- | 1,832 | 1,075 |
| Sweetgum | 44,404 | 62,099 | 16,598 | 12,637 | 16,065 | 33,470 | 8,342 | 13,198 | 3,399 | 2,794 |
| Tupelo | 34,367 | 46,152 | 8,954 | 11,060 | 18,615 | 24,078 | 5,615 | 9,616 | 1,183 | 1,398 |
| Black cherry | 54,705 | 102,003 | 6,710 | 15,599 | 21,733 | 35,326 | 5,263 | 8,920 | 20,999 | 42,158 |
| Black walnut | 83,589 | 127,229 | 20,551 | 31,134 | 27,212 | 32,050 | 7,879 | 19,844 | 27,947 | 44,201 |
| Butternut | 6,520 | 3,981 | 1,997 | 859 | 2,866 | 1,005 | 357 | 284 | 1,300 | 1,833 |
| Yellow-poplar | 187,961 | 432,602 | 53,522 | 100,111 | 90,634 | 236,003 | 16,475 | 53,366 | 27,330 | 43,122 |
| Persimmon | 6,850 | 12,010 | 3,047 | 4,063 | 3,314 | 7,544 | -- | 149 | 489 | 254 |
| Sassafras | 42,938 | 97,800 | 15,839 | 29,979 | 20,660 | 53,507 | 3,064 | 10,009 | 3,375 | 4,305 |
| Other hardwoods | 43,512 | 71,696 | 23,567 | 20,533 | 10,678 | 14,722 | 3,333 | 10,887 | 5,934 | 25,554 |
| Total | 3,570,432 | 5,016,592 | 776,287 | 1,056,753 | 1,704,134 | 2,218,027 | 304,813 | 525,724 | 785,198 | 1,216,088 |
| All species | 3,653,574 | 5,217,854 | 793,229 | 1,087,241 | 1,763,532 | 2,341,744 | 306,357 | 549,214 | 790,456 | 1,239,655 |

Table 35.--Net volume of sawtimber on timberland by species and Forest Survey Unit, 1967 and 1986

(In thousand board feet)[1/]

| Species group | All Units | | Lower Wabash Unit | | Knobs Unit | | Upland Flats Unit | | Northern Unit | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1967 | 1986 | 1967 | 1986 | 1967 | 1986 | 1967 | 1986 | 1967 | 1986 |
| Softwoods | | | | | | | | | | |
| Jack pine | -- | 18,409 | -- | -- | -- | 11,740 | -- | 838 | -- | 5,831 |
| Red pine | -- | 11,919 | -- | 2,400 | -- | 1,419 | -- | 2,034 | -- | 6,066 |
| White pine | 721 | 151,387 | -- | 33,901 | -- | 67,842 | -- | 22,895 | 721 | 26,749 |
| Shortleaf pine | 43,960 | 87,129 | 2,312 | 18,399 | 41,648 | 68,730 | -- | -- | -- | -- |
| Other yellow pines | 46,947 | 183,341 | -- | 14,548 | 46,947 | 166,036 | -- | 2,757 | -- | -- |
| Tamarack | 10,481 | 4,208 | -- | -- | -- | -- | -- | -- | 10,481 | 4,208 |
| Baldcypress | 76,569 | 41,635 | 76,569 | 40,165 | -- | 1,470 | -- | -- | -- | -- |
| Eastern redcedar | 31,982 | 113,761 | -- | 6,459 | 30,097 | 85,749 | 1,885 | 20,810 | -- | 743 |
| Other softwoods | -- | 4,724 | -- | -- | -- | -- | -- | -- | -- | 4,724 |
| Total | 210,660 | 616,513 | 78,881 | 115,872 | 118,692 | 402,986 | 1,885 | 49,334 | 11,202 | 48,321 |
| Hardwoods | | | | | | | | | | |
| Select white oak | 2,255,688 | 2,875,793 | 406,542 | 552,678 | 1,180,493 | 1,513,684 | 227,448 | 264,678 | 441,205 | 544,753 |
| Other white oak | 514,562 | 533,134 | 14,299 | 6,233 | 459,481 | 504,344 | 3,623 | 2,805 | 37,159 | 19,752 |
| Select red oak | 1,088,064 | 1,316,182 | 233,755 | 263,412 | 471,247 | 528,072 | 105,250 | 152,029 | 277,812 | 372,669 |
| Other red oak | 1,800,589 | 2,163,418 | 350,399 | 502,357 | 967,537 | 1,114,880 | 119,608 | 151,715 | 363,045 | 394,466 |
| Select hickory | 699,687 | 939,742 | 213,540 | 237,469 | 287,096 | 365,595 | 39,632 | 77,251 | 159,419 | 259,427 |
| Other hickory | 716,406 | 1,003,171 | 202,476 | 252,430 | 400,892 | 473,390 | 45,261 | 114,386 | 67,777 | 162,965 |
| Basswood | 148,061 | 253,100 | 15,905 | 40,069 | 48,518 | 39,506 | 8,788 | 37,177 | 74,850 | 136,348 |
| Beech | 459,441 | 608,945 | 25,938 | 83,217 | 259,037 | 344,282 | 55,017 | 52,418 | 119,449 | 129,028 |
| Hard maple | 805,803 | 1,413,239 | 99,438 | 200,052 | 381,566 | 652,881 | 74,984 | 145,660 | 249,815 | 414,646 |
| Soft maple | 395,028 | 809,358 | 148,928 | 269,824 | 49,258 | 214,027 | 68,060 | 71,057 | 128,782 | 254,450 |
| Elm | 214,551 | 329,362 | 56,652 | 63,488 | 86,282 | 87,445 | 9,316 | 24,491 | 62,301 | 153,938 |
| Ash | 544,904 | 1,174,946 | 120,523 | 211,047 | 161,265 | 335,958 | 51,493 | 169,707 | 211,623 | 458,234 |
| Sycamore | 573,823 | 920,914 | 170,829 | 241,079 | 214,360 | 353,628 | 40,676 | 122,737 | 147,958 | 203,470 |
| Cottonwood | 298,321 | 587,853 | 51,178 | 147,077 | 25,013 | 70,251 | 21,751 | 24,979 | 200,379 | 345,546 |
| Willow | 48,460 | 45,497 | 16,491 | 22,732 | 6,203 | 875 | 5,349 | 1,171 | 20,417 | 20,719 |
| Hackberry | 83,726 | 171,147 | 12,462 | 28,489 | 20,279 | 54,805 | 9,685 | 21,250 | 41,300 | 66,603 |
| Aspen | 61,048 | 110,582 | 11,497 | 7,067 | 24,180 | 60,134 | 9,202 | 17,936 | 16,169 | 25,445 |
| Birch | 42,970 | 31,507 | 17,976 | 13,356 | 21,722 | 17,010 | -- | -- | 3,272 | 1,141 |
| Sweetgum | 147,812 | 222,029 | 54,434 | 38,947 | 50,106 | 124,250 | 36,328 | 51,045 | 6,944 | 7,787 |
| Tupelo | 115,425 | 155,667 | 25,825 | 29,687 | 63,255 | 81,172 | 21,948 | 38,960 | 4,397 | 5,848 |
| Black cherry | 152,679 | 318,703 | 18,611 | 43,078 | 69,470 | 121,534 | 11,372 | 33,453 | 53,226 | 120,638 |
| Black walnut | 242,027 | 427,405 | 58,569 | 104,374 | 82,768 | 111,301 | 10,105 | 49,535 | 90,585 | 162,195 |
| Butternut | 16,229 | 15,368 | 1,879 | 2,871 | 7,967 | 4,008 | -- | -- | 6,383 | 8,489 |
| Yellow-poplar | 724,174 | 1,840,013 | 206,283 | 433,923 | 341,026 | 998,660 | 70,738 | 223,645 | 106,127 | 183,785 |
| Persimmon | 1,154 | 10,011 | -- | 1,261 | 1,154 | 7,502 | -- | -- | -- | 1,248 |
| Sassafras | 58,058 | 162,154 | 28,613 | 62,350 | 23,070 | 76,266 | 4,822 | 16,100 | 1,553 | 7,438 |
| Other hardwoods | 95,473 | 168,454 | 39,680 | 52,329 | 27,712 | 30,399 | 3,715 | 13,022 | 24,366 | 72,704 |
| Total | 12,304,163 | 18,607,694 | 2,602,722 | 3,910,896 | 5,730,957 | 8,285,859 | 1,054,171 | 1,877,207 | 2,916,313 | 4,533,732 |
| All species | 12,514,823 | 19,224,207 | 2,681,603 | 4,026,768 | 5,849,649 | 8,688,845 | 1,056,056 | 1,926,541 | 2,927,515 | 4,582,053 |

[1/] International 1/4-inch rule.

Table 36.--Net volume of all live trees[1/] on timberland by species group and diameter class, Indiana, 1986

(In thousand cubic feet)

| Species group | All classes | Diameter class (inches at breast height) 5.0-6.9 | 7.0-8.9 | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-22.9 | 23.0-28.9 | 29.0-38.9 | 39.0+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Softwoods | | | | | | | | | | | | | |
| Jack pine | 6,373 | 726 | 2,029 | 1,673 | 1,215 | 125 | 302 | 150 | 153 | -- | -- | -- | -- |
| Red pine | 6,885 | 1,223 | 3,361 | 2,138 | 163 | -- | -- | -- | -- | -- | -- | -- | -- |
| White pine | 39,965 | 2,886 | 9,120 | 11,056 | 6,237 | 7,414 | 2,808 | 444 | -- | -- | -- | -- | -- |
| Shortleaf pine | 30,573 | 3,068 | 10,041 | 10,482 | 4,203 | 2,446 | 333 | -- | -- | -- | -- | -- | -- |
| Other yellow pines | 48,247 | 6,199 | 7,032 | 11,838 | 9,313 | 9,389 | 3,077 | 188 | 485 | 332 | 394 | -- | -- |
| Tamarack | 1,585 | 800 | -- | 461 | -- | 324 | -- | -- | -- | -- | -- | -- | -- |
| Baldcypress | 8,961 | 196 | 1,020 | 2,405 | 1,132 | 1,995 | 975 | 1,065 | -- | -- | -- | 173 | -- |
| Eastern redcedar | 60,447 | 17,821 | 15,329 | 10,814 | 6,207 | 5,314 | 3,362 | 1,347 | -- | -- | 253 | -- | -- |
| Other softwoods | 10,386 | 4,716 | 4,621 | 1,049 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 213,422 | 37,635 | 52,553 | 51,916 | 28,470 | 27,007 | 10,857 | 3,194 | 638 | 332 | 647 | 173 | -- |
| Hardwoods | | | | | | | | | | | | | |
| Select white oak | 729,531 | 16,716 | 40,430 | 54,978 | 75,972 | 89,704 | 100,337 | 94,359 | 79,389 | 60,196 | 77,845 | 33,880 | 5,725 |
| Other white oak | 129,754 | 2,712 | 7,535 | 10,202 | 19,867 | 24,751 | 26,993 | 19,350 | 9,968 | 4,748 | 3,628 | -- | -- |
| Select red oak | 318,370 | 6,302 | 12,579 | 15,756 | 22,325 | 41,197 | 37,035 | 41,256 | 37,702 | 27,354 | 45,970 | 27,185 | 3,709 |
| Other red oak | 544,919 | 14,648 | 23,191 | 39,047 | 55,684 | 64,512 | 82,754 | 72,472 | 62,761 | 39,446 | 66,652 | 21,053 | 2,699 |
| Select hickory | 292,902 | 16,564 | 29,603 | 47,157 | 45,109 | 51,293 | 42,746 | 27,927 | 16,018 | 8,014 | 7,597 | 874 | -- |
| Other hickory | 320,324 | 19,039 | 38,647 | 48,386 | 58,768 | 50,547 | 38,737 | 26,336 | 17,609 | 9,751 | 10,900 | 1,604 | -- |
| Basswood | 79,096 | 4,839 | 6,635 | 8,943 | 7,389 | 9,479 | 9,810 | 10,553 | 5,256 | 5,770 | 7,446 | 2,499 | 477 |
| Beech | 228,887 | 8,003 | 9,544 | 13,244 | 18,390 | 19,556 | 21,258 | 26,509 | 25,670 | 22,347 | 43,891 | 19,314 | 1,161 |
| Hard maple | 549,772 | 55,303 | 66,720 | 70,315 | 74,674 | 70,077 | 61,698 | 44,499 | 35,014 | 28,997 | 30,105 | 11,656 | 714 |
| Soft maple | 315,126 | 25,518 | 34,430 | 36,509 | 39,969 | 34,272 | 31,881 | 27,690 | 20,461 | 16,661 | 30,092 | 13,239 | 4,404 |
| Elm | 206,134 | 41,630 | 43,901 | 39,557 | 28,474 | 20,018 | 14,116 | 6,766 | 4,231 | 2,125 | 4,321 | 995 | -- |
| Ash | 417,111 | 33,028 | 51,819 | 58,857 | 59,678 | 57,351 | 49,280 | 37,028 | 23,415 | 14,996 | 23,113 | 7,686 | 860 |
| Sycamore | 240,068 | 8,266 | 10,225 | 21,735 | 23,800 | 25,926 | 25,280 | 23,669 | 26,552 | 18,150 | 35,937 | 18,533 | 1,995 |
| Cottonwood | 141,017 | 1,608 | 4,669 | 7,558 | 9,324 | 16,686 | 12,794 | 16,779 | 10,226 | 9,212 | 28,586 | 18,629 | 4,946 |
| Willow | 25,200 | 1,599 | 2,451 | 3,041 | 2,338 | 2,980 | 3,003 | 1,872 | 3,632 | 948 | 2,068 | 1,068 | 200 |
| Hackberry | 61,774 | 6,458 | 6,646 | 8,441 | 9,645 | 7,376 | 6,842 | 5,711 | 3,845 | 2,933 | 3,213 | 166 | 498 |
| Aspen | 32,258 | 2,712 | 2,905 | 4,674 | 5,682 | 6,598 | 6,490 | 1,986 | 481 | 383 | 214 | -- | 133 |
| Birch | 13,342 | 1,910 | 1,957 | 2,710 | 618 | 2,394 | 2,111 | 994 | 181 | -- | 467 | -- | -- |
| Sweetgum | 65,254 | 3,376 | 7,392 | 8,828 | 12,577 | 10,638 | 7,173 | 5,085 | 4,138 | 2,094 | 2,012 | 1,675 | 266 |
| Tupelo | 51,626 | 3,711 | 5,667 | 8,540 | 7,133 | 7,413 | 4,474 | 4,899 | 3,458 | 1,989 | 3,993 | 349 | -- |
| Black cherry | 138,713 | 11,759 | 19,761 | 21,689 | 25,324 | 14,999 | 15,920 | 11,470 | 8,257 | 5,368 | 3,282 | 884 | -- |
| Black walnut | 155,300 | 8,505 | 20,010 | 23,137 | 27,409 | 23,375 | 24,631 | 13,785 | 7,648 | 2,859 | 3,176 | 645 | 120 |
| Butternut | 5,193 | 236 | 418 | 430 | 1,420 | 580 | 1,572 | 209 | 206 | -- | 122 | -- | -- |
| Yellow-poplar | 448,063 | 14,805 | 22,620 | 36,965 | 42,947 | 59,312 | 64,775 | 69,228 | 48,442 | 34,344 | 46,530 | 7,686 | 409 |
| Persimmon | 13,600 | 4,814 | 3,719 | 2,714 | 1,379 | 683 | 136 | 155 | -- | -- | -- | -- | -- |
| Sassafras | 124,221 | 28,903 | 29,016 | 21,270 | 15,593 | 9,425 | 9,168 | 5,840 | 2,042 | 763 | 1,969 | 232 | -- |
| Other hardwoods | 136,187 | 23,885 | 22,358 | 20,742 | 17,418 | 17,192 | 11,037 | 9,079 | 4,186 | 4,155 | 4,994 | 705 | 436 |
| Noncommercial spp. | 32,124 | 12,789 | 7,375 | 4,485 | 2,276 | 2,128 | 1,342 | 874 | 344 | 150 | 133 | 228 | -- |
| Total | 5,815,866 | 379,638 | 532,223 | 639,910 | 711,182 | 740,462 | 713,393 | 606,380 | 461,132 | 323,753 | 488,256 | 190,785 | 28,752 |
| All species | 6,029,288 | 417,273 | 584,776 | 691,826 | 739,652 | 767,469 | 724,250 | 609,574 | 461,770 | 324,085 | 488,903 | 190,958 | 28,752 |

[1/] Net volume of all live trees 5 inches dbh and larger from a 1-foot stump to a 4-inch top diameter outside bark.

Table 37.--Net volume of timber on timberland by class of timber and species group, Indiana, 1986

(In thousand cubic feet)

| Class of timber | All species | Species group | | | |
|---|---|---|---|---|---|
| | | Pine | Other softwoods | Soft hardwoods | Hard hardwoods |
| Live trees | | | | | |
| Growing-stock trees | | | | | |
| Sawtimber | | | | | |
| Saw log portion | 2,941,160 | 77,953 | 27,123 | 914,181 | 1,921,903 |
| Upper stem portion | 823,450 | 6,666 | 2,259 | 264,619 | 549,906 |
| Total | 3,764,610 | 84,619 | 29,382 | 1,178,800 | 2,471,809 |
| Poletimber | 1,453,244 | 53,684 | 33,577 | 519,204 | 846,779 |
| All growing-stock trees | 5,217,854 | 138,303 | 62,959 | 1,698,004 | 3,318,588 |
| Cull trees | | | | | |
| Short-log trees | 162,268 | 923 | 885 | 51,457 | 109,003 |
| Rough trees | | | | | |
| Sawtimber | 305,817 | 1,865 | 5,560 | 101,413 | 196,979 |
| Poletimber | 168,004 | 1,288 | 1,546 | 76,133 | 89,037 |
| Total | 473,821 | 3,153 | 7,106 | 177,546 | 286,016 |
| Rotten trees | | | | | |
| Sawtimber | 154,634 | -- | -- | 49,909 | 104,725 |
| Poletimber | 20,711 | 50 | 43 | 10,779 | 9,839 |
| Total | 175,345 | 50 | 43 | 60,688 | 114,564 |
| All cull trees | 811,434 | 4,126 | 8,034 | 289,691 | 509,583 |
| All live trees | 6,029,288 | 142,429 | 70,993 | 1,987,695 | 3,828,171 |
| Salvable dead trees | | | | | |
| Sawtimber | 52,654 | 1,652 | 852 | 11,100 | 15,739 |
| Poletimber | 29,343 | 1,533 | 1,299 | 13,688 | 36,134 |
| Total | 81,997 | 3,185 | 2,151 | 24,788 | 51,873 |
| All classes | 6,111,285 | 145,614 | 73,144 | 2,012,483 | 3,880,044 |

Table 38.--Net volume of growing stock in the saw-log portion of sawtimber trees on timberland by species group and diameter class, Indiana, 1986

(In thousand cubic feet)

| Species group | All classes | Diameter class (inches at breast height) 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-22.9 | 23.0-28.9 | 29.0-38.9 | 39.0+ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Softwoods | | | | | | | | | | | |
| Jack pine | 3,141 | 1,300 | 1,158 | 119 | 285 | 141 | 138 | -- | -- | -- | -- |
| Red pine | 2,046 | 1,890 | 156 | -- | -- | -- | -- | -- | -- | -- | -- |
| White pine | 25,805 | 9,718 | 5,944 | 7,062 | 2,663 | 418 | -- | -- | -- | -- | -- |
| Shortleaf pine | 14,942 | 8,685 | 3,662 | 2,280 | 315 | -- | -- | -- | -- | -- | -- |
| Other yellow pines | 31,210 | 9,816 | 8,743 | 8,806 | 2,744 | 177 | 437 | 176 | 311 | -- | -- |
| Tamarack | 716 | 407 | -- | 309 | -- | -- | -- | -- | -- | -- | -- |
| Baldcypress | 7,034 | 2,128 | 1,078 | 1,900 | 925 | 1,003 | -- | -- | -- | -- | -- |
| Eastern redcedar | 19,373 | 7,754 | 4,784 | 4,056 | 1,875 | 704 | -- | -- | 200 | -- | -- |
| Other softwoods | 809 | 809 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 105,076 | 42,507 | 25,525 | 24,532 | 8,807 | 2,443 | 575 | 176 | 511 | -- | -- |
| Hardwoods | | | | | | | | | | | |
| Select white oak | 437,844 | -- | 52,763 | 66,449 | 77,126 | 72,032 | 59,150 | 42,215 | 49,250 | 17,156 | 1,703 |
| Other white oak | 81,471 | -- | 13,937 | 18,672 | 20,700 | 14,779 | 7,528 | 3,525 | 2,330 | -- | -- |
| Select red oak | 200,159 | -- | 16,089 | 30,777 | 28,052 | 31,640 | 27,419 | 20,222 | 29,529 | 15,405 | 1,026 |
| Other red oak | 329,385 | -- | 38,993 | 47,954 | 61,966 | 54,057 | 44,338 | 27,405 | 42,975 | 10,926 | 771 |
| Select hickory | 143,671 | -- | 32,490 | 37,876 | 31,295 | 20,422 | 11,250 | 5,431 | 4,365 | 542 | -- |
| Other hickory | 153,268 | -- | 41,274 | 36,663 | 28,810 | 20,434 | 12,364 | 6,605 | 6,315 | 803 | -- |
| Basswood | 38,579 | -- | 4,800 | 7,002 | 7,333 | 7,274 | 3,601 | 4,202 | 3,727 | 640 | -- |
| Beech | 92,575 | -- | 11,049 | 10,980 | 13,614 | 13,450 | 14,082 | 11,131 | 15,073 | 3,196 | -- |
| Hard maple | 215,607 | -- | 47,310 | 45,029 | 41,244 | 26,853 | 21,471 | 16,669 | 12,373 | 4,334 | 324 |
| Soft maple | 123,308 | -- | 20,613 | 22,297 | 20,234 | 16,949 | 12,001 | 7,763 | 15,097 | 7,098 | 1,256 |
| Elm | 50,359 | -- | 16,453 | 13,069 | 9,954 | 4,306 | 2,716 | 1,062 | 2,211 | 588 | -- |
| Ash | 179,348 | -- | 37,672 | 39,615 | 35,054 | 24,836 | 15,769 | 9,567 | 12,879 | 3,814 | 142 |
| Sycamore | 140,002 | -- | 16,754 | 18,847 | 19,123 | 18,508 | 18,511 | 13,291 | 22,609 | 11,156 | 1,203 |
| Cottonwood | 89,318 | -- | 6,532 | 11,975 | 10,148 | 13,199 | 7,059 | 6,340 | 19,963 | 11,240 | 2,862 |
| Willow | 6,930 | -- | 625 | 1,548 | 1,596 | 427 | 2,159 | 384 | 191 | -- | -- |
| Hackberry | 26,120 | -- | 6,548 | 5,110 | 4,323 | 4,100 | 2,708 | 1,881 | 1,450 | -- | -- |
| Aspen | 16,932 | -- | 4,175 | 5,038 | 5,197 | 1,597 | 376 | 294 | 157 | -- | 98 |
| Birch | 4,829 | -- | 311 | 1,894 | 1,690 | 575 | 141 | -- | 218 | -- | -- |
| Sweetgum | 33,901 | -- | 9,231 | 8,349 | 5,367 | 3,685 | 3,154 | 1,611 | 1,134 | 1,175 | 195 |
| Tupelo | 23,744 | -- | 5,010 | 5,079 | 3,020 | 3,689 | 2,698 | 1,465 | 2,526 | 257 | -- |
| Black cherry | 48,644 | -- | 12,617 | 9,242 | 10,407 | 5,437 | 6,098 | 3,251 | 1,592 | -- | -- |
| Black walnut | 65,362 | -- | 17,251 | 15,671 | 17,066 | 8,184 | 4,580 | 1,174 | 1,254 | 182 | -- |
| Butternut | 2,349 | -- | 752 | 217 | 1,051 | 168 | 161 | -- | -- | -- | -- |
| Yellow-poplar | 280,281 | -- | 30,550 | 45,580 | 51,285 | 53,821 | 37,183 | 25,416 | 32,519 | 3,927 | -- |
| Persimmon | 1,534 | -- | 977 | 432 | -- | 125 | -- | -- | -- | -- | -- |
| Sassafras | 24,814 | -- | 8,791 | 6,065 | 5,259 | 3,288 | 458 | 414 | 539 | -- | -- |
| Other hardwoods | 25,750 | -- | 6,741 | 7,761 | 4,212 | 2,815 | 647 | 1,721 | 1,685 | 168 | -- |
| Total | 2,836,084 | -- | 460,308 | 519,191 | 515,126 | 426,650 | 317,622 | 213,039 | 281,961 | 92,607 | 9,580 |
| All species | 2,941,160 | 42,507 | 485,833 | 543,723 | 523,933 | 429,093 | 318,197 | 213,215 | 282,472 | 92,607 | 9,580 |

Table 39.--Net volume of growing stock, sawtimber, short-log, and rough and rotten trees on timberland by individual commercial species, Indiana, 1986

| Species | All live trees | | | | | Saw-log size trees | | |
|---|---|---|---|---|---|---|---|---|
| | Total all live | Growing stock | Short-log cull | Rough cull | Rotten cull | Total saw log | Sawtimber | Short-log |
| | Thousand cubic feet | | | | | Thousand board feet[1] | | |
| Jack pine | 6,373 | 6,119 | 199 | 55 | -- | 19,417 | 18,409 | 1,008 |
| Red pine | 6,885 | 6,763 | -- | 122 | -- | 11,919 | 11,919 | -- |
| White pine | 39,965 | 39,757 | -- | 208 | -- | 151,387 | 151,387 | -- |
| Shortleaf pine | 30,573 | 29,314 | 488 | 771 | -- | 89,383 | 87,129 | 2,254 |
| Virginia pine | 48,247 | 46,661 | 236 | 1,300 | 50 | 184,228 | 183,341 | 887 |
| Tamarack | 1,585 | 1,585 | -- | -- | -- | 4,208 | 4,208 | -- |
| Baldcypress | 8,961 | 8,788 | -- | 173 | -- | 41,635 | 41,635 | -- |
| Eastern redcedar | 60,447 | 52,586 | 885 | 6,933 | 43 | 117,751 | 113,761 | 3,990 |
| Scotch pine | 10,386 | 9,689 | -- | 697 | -- | 4,724 | 4,724 | -- |
| White oak | 626,651 | 580,508 | 16,427 | 24,169 | 5,547 | 2,545,355 | 2,496,051 | 49,304 |
| Swamp white oak | 24,338 | 22,359 | 608 | 833 | 538 | 95,591 | 93,932 | 1,659 |
| Bur oak | 18,786 | 15,942 | 1,292 | 1,166 | 386 | 81,579 | 77,900 | 3,679 |
| Swamp chestnut | 3,920 | 3,657 | 175 | -- | 88 | 17,594 | 17,131 | 463 |
| Chinkapin oak | 55,836 | 48,244 | 2,524 | 4,898 | 170 | 198,819 | 190,779 | 8,040 |
| Overcup oak | 639 | 639 | -- | -- | -- | 3,357 | 3,357 | -- |
| Chestnut oak | 116,203 | 111,322 | 1,646 | 1,828 | 1,407 | 498,282 | 492,882 | 5,400 |
| Post oak | 12,912 | 11,673 | 229 | 853 | 157 | 37,606 | 36,895 | 711 |
| Cherrybark oak | 2,833 | 2,576 | 147 | 110 | -- | 12,647 | 12,134 | 513 |
| Northern red oak | 310,999 | 285,084 | 9,054 | 11,586 | 5,275 | 1,308,570 | 1,282,653 | 25,917 |
| Shumard oak | 4,538 | 4,218 | 320 | -- | -- | 22,243 | 21,395 | 848 |
| Scarlet oak | 44,774 | 42,522 | 760 | 1,016 | 476 | 176,430 | 174,182 | 2,248 |
| Northern pin oak | 17,852 | 14,601 | 548 | 2,422 | 281 | 59,614 | 57,759 | 1,855 |
| Southern red oak | 175 | 175 | -- | -- | -- | 858 | 858 | -- |
| Shingle oak | 16,421 | 13,467 | 575 | 2,319 | 60 | 32,089 | 30,224 | 1,865 |
| Blackjack oak | 298 | 298 | -- | -- | -- | 1,021 | 1,021 | -- |
| Pin oak | 66,439 | 59,723 | 1,961 | 3,676 | 1,079 | 282,487 | 276,591 | 5,896 |
| Black oak | 398,960 | 366,536 | 7,689 | 17,845 | 6,890 | 1,645,401 | 1,622,783 | 22,618 |
| Pecan | 2,012 | 1,822 | 190 | -- | -- | 8,922 | 8,382 | 540 |
| Shellbark hickory | 12,861 | 12,049 | 339 | 473 | -- | 42,508 | 41,481 | 1,027 |
| Shagbark hickory | 229,321 | 215,109 | 5,453 | 7,982 | 777 | 742,762 | 724,909 | 17,853 |
| Mockernut hickory | 48,708 | 45,725 | 460 | 2,102 | 421 | 166,550 | 164,970 | 1,580 |
| Bitternut hickory | 108,679 | 99,551 | 2,792 | 5,096 | 1,240 | 340,086 | 331,222 | 8,864 |
| Pignut hickory | 211,645 | 199,702 | 3,097 | 7,398 | 1,448 | 682,115 | 671,949 | 10,166 |
| American basswood | 78,971 | 66,945 | 2,287 | 4,416 | 5,323 | 259,973 | 253,100 | 6,873 |
| White basswood | 125 | 125 | -- | -- | -- | -- | -- | -- |
| Beech | 228,887 | 145,972 | 8,899 | 27,774 | 46,242 | 636,113 | 608,945 | 27,168 |
| Yellow birch | 542 | 391 | -- | 151 | -- | -- | -- | -- |
| Black maple | 2,737 | 1,639 | 315 | 542 | 241 | 5,435 | 4,472 | 963 |
| Sugar maple | 547,035 | 453,093 | 18,737 | 53,610 | 21,595 | 1,468,042 | 1,408,767 | 59,275 |
| Red maple | 170,236 | 125,651 | 7,372 | 29,504 | 7,709 | 390,157 | 366,741 | 23,416 |
| Silver maple | 144,890 | 118,109 | 7,656 | 13,436 | 5,689 | 465,782 | 442,617 | 23,165 |
| Winged elm | 1,702 | 1,702 | -- | -- | -- | 1,671 | 1,671 | -- |
| American elm | 118,400 | 95,365 | 3,977 | 18,252 | 806 | 163,792 | 150,469 | 13,323 |
| Siberian elm | 1,052 | 752 | -- | 300 | -- | 1,406 | 1,406 | -- |
| Slippery elm | 81,732 | 74,754 | 762 | 5,285 | 931 | 177,130 | 174,499 | 2,631 |
| Rock elm | 3,248 | 1,501 | -- | 1,747 | -- | 1,317 | 1,317 | -- |
| Black ash | 2,814 | 2,580 | -- | 234 | -- | 8,862 | 8,862 | -- |
| Blue ash | 5,582 | 4,466 | -- | 984 | 132 | 10,966 | 10,966 | -- |
| White ash | 324,665 | 280,335 | 11,248 | 28,032 | 5,050 | 966,492 | 930,178 | 36,314 |
| Green ash | 84,050 | 72,296 | 3,166 | 6,930 | 1,658 | 235,377 | 224,940 | 10,437 |
| Sycamore | 240,068 | 219,745 | 4,151 | 8,999 | 7,173 | 934,006 | 920,914 | 13,092 |
| Eastern cottonwood | 141,017 | 129,300 | 4,127 | 5,632 | 1,958 | 599,991 | 587,853 | 12,138 |
| Black willow | 25,200 | 13,501 | 1,589 | 8,428 | 1,682 | 50,482 | 45,497 | 4,985 |
| Hackberry | 61,774 | 51,859 | 2,633 | 6,110 | 1,172 | 179,391 | 171,147 | 8,244 |
| Balsam poplar | 347 | 347 | -- | -- | -- | 1,691 | 1,691 | -- |
| Bigtooth aspen | 30,748 | 29,780 | 109 | 600 | 259 | 103,772 | 103,367 | 405 |
| Quaking aspen | 954 | 954 | -- | -- | -- | 4,450 | 4,450 | -- |
| Paper birch | 777 | 684 | -- | 93 | -- | 1,141 | 1,141 | -- |
| River birch | 12,023 | 11,463 | 170 | 203 | 187 | 30,817 | 30,366 | 451 |
| Sweetgum | 65,254 | 62,099 | 586 | 1,562 | 1,007 | 223,784 | 222,029 | 1,755 |
| Black tupelo | 51,626 | 46,152 | 1,102 | 3,201 | 1,171 | 159,443 | 155,667 | 3,776 |
| Swamp tupelo | 967 | 856 | -- | -- | 111 | 4,433 | 4,433 | -- |
| Black cherry | 138,713 | 102,003 | 6,192 | 27,222 | 3,296 | 339,168 | 318,703 | 20,465 |
| Black walnut | 155,300 | 127,229 | 6,385 | 18,171 | 3,515 | 448,667 | 427,405 | 21,262 |
| Butternut | 5,193 | 3,981 | 298 | 530 | 384 | 16,475 | 15,368 | 1,107 |
| Yellow-poplar | 448,063 | 432,602 | 3,874 | 6,428 | 5,159 | 1,852,429 | 1,840,013 | 12,416 |
| Boxelder | 33,032 | 9,691 | 1,099 | 16,763 | 5,479 | 23,880 | 20,118 | 3,762 |
| Ohio buckeye | 10,136 | 7,544 | 309 | 1,476 | 807 | 16,141 | 15,061 | 1,080 |
| Northern catalpa | 4,943 | 2,315 | 233 | 885 | 1,510 | 10,823 | 10,040 | 783 |
| Persimmon | 13,600 | 12,010 | -- | 1,065 | 525 | 10,011 | 10,011 | -- |
| Kentucky coffeetree | 3,523 | 2,824 | 332 | -- | 367 | 11,755 | 10,596 | 1,159 |
| Flowering dogwood | 6,751 | 3,482 | -- | 2,998 | 271 | -- | -- | -- |
| Honeylocust | 28,041 | 18,949 | 799 | 7,350 | 943 | 56,939 | 54,155 | 2,784 |
| White mulberry | 628 | -- | -- | 477 | 151 | -- | -- | -- |
| Red mulberry | 2,860 | 409 | -- | 2,056 | 395 | -- | -- | -- |
| White poplar | 399 | 399 | -- | -- | -- | 1,074 | 1,074 | -- |
| Black locust | 44,263 | 25,436 | 2,666 | 8,563 | 7,598 | 62,976 | 54,051 | 8,925 |
| Sassafras | 124,221 | 97,800 | 3,101 | 14,804 | 8,516 | 172,009 | 162,154 | 9,855 |
| European alder | 721 | -- | -- | 721 | -- | -- | -- | -- |
| Yellow buckeye | 132 | -- | -- | 132 | -- | -- | -- | -- |
| All commercial species | 5,997,164 | 5,217,854 | 162,268 | 441,697 | 175,345 | 19,735,401 | 19,224,207 | 511,194 |

[1] International 1/4-inch rule.

Table 40.--Net volume of noncommercial species on timberland by individual species, Indiana, 1986

(In thousand cubic feet)

| Species | Cull volume |
|---|---|
| Osage-orange | 13,358 |
| Eastern hophornbeam | 5,973 |
| Eastern redbud | 5,565 |
| Hawthorn | 3,349 |
| American hornbeam | 1,435 |
| Apple | 1,385 |
| Ailanthus | 641 |
| Wild plum | 196 |
| Pawpaw | 135 |
| Chokecherry | 87 |
| All species | 32,124 |

Table 41.--Net volume of growing stock on timberland by species group and diameter class, Indiana, 1986

(In thousand cubic feet)

| Species group | All classes | Diameter class (inches at breast height) 5.0-6.9 | 7.0-8.9 | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-22.9 | 23.0-28.9 | 29.0-38.9 | 39.0+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Softwoods | | | | | | | | | | | | | |
| Jack pine | 6,119 | 671 | 2,029 | 1,474 | 1,215 | 125 | 302 | 150 | 153 | -- | -- | -- | -- |
| Red pine | 6,763 | 1,179 | 3,283 | 2,138 | 163 | -- | -- | -- | -- | -- | -- | -- | -- |
| White pine | 39,757 | 2,788 | 9,068 | 10,998 | 6,237 | 7,414 | 2,808 | 444 | -- | -- | -- | -- | -- |
| Shortleaf pine | 29,314 | 3,013 | 9,903 | 9,827 | 3,845 | 2,393 | 333 | -- | -- | -- | -- | -- | -- |
| Other yellow pines | 46,661 | 6,109 | 6,867 | 11,111 | 9,173 | 9,242 | 2,892 | 188 | 485 | 200 | 394 | -- | -- |
| Tamarack | 1,585 | 800 | -- | 461 | -- | 324 | -- | -- | -- | -- | -- | -- | -- |
| Baldcypress | 8,788 | 196 | 1,020 | 2,405 | 1,132 | 1,995 | 975 | 1,065 | -- | -- | -- | -- | -- |
| Eastern redcedar | 52,586 | 17,415 | 14,146 | 8,775 | 5,020 | 4,256 | 1,974 | 747 | -- | -- | 253 | -- | -- |
| Other softwoods | 9,689 | 4,461 | 4,313 | 915 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 201,262 | 36,632 | 50,629 | 48,104 | 26,785 | 25,749 | 9,284 | 2,594 | 638 | 200 | 647 | -- | -- |
| Hardwoods | | | | | | | | | | | | | |
| Select white oak | 670,710 | 15,603 | 39,112 | 52,484 | 70,422 | 84,057 | 96,341 | 89,519 | 75,738 | 54,889 | 66,914 | 23,315 | 2,316 |
| Other white oak | 123,634 | 2,636 | 7,180 | 9,974 | 18,597 | 23,625 | 25,860 | 18,374 | 9,638 | 4,584 | 3,166 | -- | -- |
| Select red oak | 291,878 | 6,125 | 12,410 | 14,706 | 21,478 | 38,938 | 35,050 | 39,309 | 35,120 | 26,297 | 40,120 | 20,931 | 1,394 |
| Other red oak | 497,322 | 14,106 | 21,499 | 37,714 | 52,041 | 60,656 | 77,408 | 67,185 | 56,788 | 35,633 | 58,395 | 14,851 | 1,046 |
| Select hickory | 274,705 | 16,280 | 28,451 | 46,103 | 43,368 | 47,912 | 39,087 | 25,379 | 14,402 | 7,060 | 5,928 | 735 | -- |
| Other hickory | 299,253 | 18,420 | 36,854 | 47,038 | 55,077 | 46,383 | 35,992 | 25,398 | 15,838 | 8,587 | 8,576 | 1,090 | -- |
| Basswood | 67,070 | 3,891 | 5,684 | 8,029 | 6,406 | 8,862 | 9,163 | 9,036 | 4,609 | 5,463 | 5,059 | 868 | -- |
| Beech | 145,972 | 7,570 | 8,123 | 10,590 | 14,749 | 13,889 | 17,008 | 16,713 | 18,038 | 14,473 | 20,479 | 4,340 | -- |
| Hard maple | 454,732 | 51,110 | 62,034 | 64,259 | 63,140 | 56,969 | 51,526 | 33,387 | 27,492 | 21,673 | 16,817 | 5,885 | 440 |
| Soft maple | 243,760 | 22,144 | 30,271 | 31,954 | 27,519 | 28,205 | 25,272 | 21,059 | 15,372 | 10,094 | 20,512 | 9,650 | 1,708 |
| Elm | 174,074 | 36,697 | 37,658 | 34,778 | 21,962 | 16,532 | 12,436 | 5,350 | 3,478 | 1,379 | 3,003 | 801 | -- |
| Ash | 359,677 | 30,259 | 45,945 | 52,912 | 50,286 | 50,126 | 43,780 | 30,861 | 20,194 | 12,442 | 17,500 | 5,179 | 193 |
| Sycamore | 219,745 | 8,040 | 9,563 | 20,531 | 22,364 | 23,839 | 23,896 | 23,003 | 23,713 | 17,278 | 30,728 | 15,156 | 1,634 |
| Cottonwood | 129,300 | 1,519 | 4,332 | 6,939 | 8,716 | 15,152 | 12,678 | 16,402 | 9,040 | 8,239 | 27,119 | 15,273 | 3,891 |
| Willow | 13,501 | 1,216 | 1,505 | 1,939 | 833 | 1,959 | 1,993 | 531 | 2,765 | 500 | 260 | -- | -- |
| Hackberry | 51,859 | 5,274 | 5,949 | 7,058 | 8,739 | 6,462 | 5,397 | 5,097 | 3,468 | 2,445 | 1,970 | -- | -- |
| Aspen | 31,290 | 2,628 | 2,649 | 4,377 | 5,573 | 6,376 | 6,490 | 1,986 | 481 | 383 | 214 | -- | 133 |
| Birch | 12,538 | 1,822 | 1,957 | 2,645 | 415 | 2,394 | 2,111 | 716 | 181 | -- | 297 | -- | -- |
| Sweetgum | 62,099 | 3,057 | 6,904 | 8,431 | 12,321 | 10,560 | 6,705 | 4,584 | 4,041 | 2,094 | 1,539 | 1,597 | 266 |
| Tupelo | 46,152 | 3,369 | 5,104 | 7,078 | 6,683 | 6,421 | 3,770 | 4,584 | 3,458 | 1,907 | 3,429 | 349 | -- |
| Black cherry | 102,003 | 8,745 | 14,257 | 16,522 | 16,841 | 11,693 | 12,995 | 6,753 | 7,809 | 4,227 | 2,161 | -- | -- |
| Black walnut | 127,229 | 7,426 | 17,143 | 18,964 | 23,023 | 19,838 | 21,317 | 10,171 | 5,868 | 1,528 | 1,704 | 247 | -- |
| Butternut | 3,981 | 128 | 418 | 430 | 1,004 | 275 | 1,311 | 209 | 206 | -- | -- | -- | -- |
| Yellow-poplar | 432,602 | 14,641 | 22,137 | 36,250 | 40,772 | 57,667 | 64,059 | 66,877 | 47,625 | 33,050 | 44,187 | 5,337 | -- |
| Persimmon | 12,010 | 4,335 | 3,406 | 2,265 | 1,303 | 546 | -- | 155 | -- | -- | -- | -- | -- |
| Sassafras | 97,800 | 23,675 | 24,298 | 17,912 | 11,734 | 7,668 | 6,569 | 4,086 | 587 | 539 | 732 | -- | -- |
| Other hardwoods | 71,696 | 12,720 | 13,076 | 12,746 | 8,999 | 9,816 | 5,260 | 3,498 | 827 | 2,239 | 2,287 | 228 | -- |
| Total | 5,016,592 | 323,436 | 467,919 | 574,628 | 614,365 | 656,820 | 643,474 | 530,222 | 406,776 | 277,003 | 383,096 | 125,832 | 13,021 |
| All species | 5,217,854 | 360,068 | 518,548 | 622,732 | 641,150 | 682,569 | 652,758 | 532,816 | 407,414 | 277,203 | 383,743 | 125,832 | 13,021 |

Table 42.--Net volume of sawtimber on timberland by species group and diameter class, Indiana, 1986

(In thousand board feet)[1/]

| Species group | All classes | Diameter class (inches at breast height) 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-22.9 | 23.0-28.9 | 29.0-38.9 | 39.0+ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Softwoods | | | | | | | | | | | |
| Jack pine | 18,409 | 7,601 | 6,644 | 704 | 1,722 | 871 | 867 | -- | -- | -- | -- |
| Red pine | 11,919 | 11,026 | 893 | -- | -- | -- | -- | -- | -- | -- | -- |
| White pine | 151,387 | 56,747 | 34,104 | 41,894 | 16,063 | 2,579 | -- | -- | -- | -- | -- |
| Shortleaf pine | 87,129 | 50,686 | 21,019 | 13,521 | 1,903 | -- | -- | -- | -- | -- | -- |
| Other yellow pines | 183,341 | 57,316 | 50,162 | 52,227 | 16,548 | 1,093 | 2,745 | 1,136 | 2,114 | -- | -- |
| Tamarack | 4,208 | 2,377 | -- | 1,831 | -- | -- | -- | -- | -- | -- | -- |
| Baldcypress | 41,635 | 12,411 | 6,189 | 11,265 | 5,583 | 6,187 | -- | -- | -- | -- | -- |
| Eastern redcedar | 113,761 | 45,260 | 27,450 | 24,056 | 11,299 | 4,338 | -- | -- | 1,358 | -- | -- |
| Other softwoods | 4,724 | 4,724 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 616,513 | 248,148 | 146,461 | 145,498 | 53,118 | 15,068 | 3,612 | 1,136 | 3,472 | -- | -- |
| Hardwoods | | | | | | | | | | | |
| Select white oak | 2,875,793 | -- | 345,526 | 431,290 | 503,212 | 471,879 | 392,096 | 280,441 | 326,321 | 113,721 | 11,307 |
| Other white oak | 533,134 | -- | 91,276 | 121,194 | 135,086 | 96,825 | 49,896 | 23,411 | 15,446 | -- | -- |
| Select red oak | 1,316,182 | -- | 105,383 | 199,781 | 183,072 | 207,238 | 181,782 | 134,347 | 195,693 | 102,084 | 6,802 |
| Other red oak | 2,163,418 | -- | 255,361 | 311,246 | 404,356 | 354,139 | 293,960 | 182,026 | 284,801 | 72,428 | 5,101 |
| Select hickory | 939,742 | -- | 212,812 | 245,835 | 204,186 | 133,774 | 74,561 | 36,069 | 28,921 | 3,584 | -- |
| Other hickory | 1,003,171 | -- | 270,299 | 237,979 | 188,012 | 133,856 | 81,982 | 43,886 | 41,839 | 5,318 | -- |
| Basswood | 253,100 | -- | 31,440 | 45,458 | 47,859 | 47,651 | 23,859 | 27,913 | 24,682 | 4,238 | -- |
| Beech | 608,945 | -- | 72,371 | 71,277 | 88,837 | 88,099 | 93,368 | 73,937 | 99,882 | 21,174 | -- |
| Hard maple | 1,413,239 | -- | 309,851 | 292,294 | 269,157 | 175,957 | 142,346 | 110,740 | 82,036 | 28,712 | 2,146 |
| Soft maple | 809,358 | -- | 135,029 | 144,729 | 131,988 | 111,029 | 79,574 | 51,572 | 100,057 | 47,052 | 8,328 |
| Elm | 329,362 | -- | 107,749 | 84,859 | 64,946 | 28,209 | 18,005 | 7,046 | 14,646 | 3,902 | -- |
| Ash | 1,174,946 | -- | 246,716 | 257,205 | 228,685 | 162,697 | 104,521 | 63,570 | 85,345 | 25,265 | 942 |
| Sycamore | 920,914 | -- | 109,723 | 122,326 | 124,834 | 121,252 | 122,751 | 88,291 | 149,847 | 73,922 | 7,968 |
| Cottonwood | 587,853 | -- | 42,773 | 77,740 | 66,225 | 86,468 | 46,785 | 42,106 | 132,293 | 74,494 | 18,969 |
| Willow | 45,497 | -- | 4,094 | 10,054 | 10,413 | 2,799 | 14,315 | 2,554 | 1,268 | -- | -- |
| Hackberry | 171,147 | -- | 42,887 | 33,155 | 28,197 | 26,854 | 17,951 | 12,491 | 9,612 | -- | -- |
| Aspen | 110,582 | -- | 27,347 | 32,716 | 33,918 | 10,466 | 2,490 | 1,954 | 1,042 | -- | 649 |
| Birch | 31,507 | -- | 2,036 | 12,295 | 11,023 | 3,772 | 934 | -- | 1,447 | -- | -- |
| Sweetgum | 222,029 | -- | 60,449 | 54,195 | 35,025 | 24,150 | 20,914 | 10,698 | 7,511 | 7,789 | 1,298 |
| Tupelo | 155,667 | -- | 32,794 | 32,956 | 19,691 | 24,164 | 17,891 | 9,740 | 16,730 | 1,701 | -- |
| Black cherry | 318,703 | -- | 82,643 | 59,997 | 67,897 | 35,603 | 40,414 | 21,601 | 10,548 | -- | -- |
| Black walnut | 427,405 | -- | 112,991 | 101,758 | 111,354 | 53,616 | 30,367 | 7,807 | 8,311 | 1,201 | -- |
| Butternut | 15,368 | -- | 4,929 | 1,412 | 6,857 | 1,101 | 1,069 | -- | -- | -- | -- |
| Yellow-poplar | 1,840,013 | -- | 200,080 | 295,847 | 334,647 | 352,563 | 246,507 | 168,830 | 215,507 | 26,032 | -- |
| Persimmon | 10,011 | -- | 6,390 | 2,802 | -- | 819 | -- | -- | -- | -- | -- |
| Sassafras | 162,154 | -- | 57,581 | 39,361 | 34,314 | 21,537 | 3,039 | 2,754 | 3,568 | -- | -- |
| Other hardwoods | 168,454 | -- | 44,159 | 50,372 | 27,487 | 18,443 | 4,283 | 11,436 | 11,162 | 1,112 | -- |
| Total | 18,607,694 | -- | 3,014,689 | 3,370,133 | 3,361,278 | 2,794,960 | 2,105,660 | 1,415,220 | 1,868,515 | 613,729 | 63,510 |
| All species | 19,224,207 | 248,148 | 3,161,150 | 3,515,631 | 3,414,396 | 2,810,028 | 2,109,272 | 1,416,356 | 1,871,987 | 613,729 | 63,510 |

[1/] International 1/4-inch rule.

Table 43.--Net volume of live trees and growing stock on timberland by ownership class and species group, Indiana, 1986

(In thousand cubic feet)

| Ownership class | Live trees | | | | | Growing stock | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All species | Pine | Other softwoods | Soft hardwoods | Hard hardwoods | All species | Pine | Other softwoods | Soft hardwoods | Hard hardwoods |
| National forest | 254,132 | 19,403 | 4,168 | 45,251 | 185,310 | 238,825 | 18,852 | 3,418 | 41,894 | 174,661 |
| Miscellaneous federal | 233,839 | 234 | 479 | 73,378 | 159,748 | 209,504 | 234 | 479 | 62,744 | 146,047 |
| State | 305,340 | 13,509 | 3,223 | 66,377 | 222,231 | 282,535 | 13,211 | 3,002 | 60,852 | 205,470 |
| County and municipal | 43,215 | -- | 176 | 21,336 | 21,703 | 36,332 | -- | 176 | 18,661 | 17,495 |
| Forest industry | 29,702 | -- | -- | 4,639 | 25,063 | 26,484 | -- | -- | 3,836 | 22,648 |
| Farmer | 2,385,968 | 38,538 | 29,107 | 884,352 | 1,433,971 | 2,006,762 | 37,841 | 24,587 | 737,712 | 1,206,622 |
| Misc. private-corp. | 522,104 | 25,906 | 4,535 | 173,911 | 317,752 | 449,452 | 25,076 | 4,399 | 147,238 | 272,739 |
| Misc. private-indiv. | 2,254,988 | 44,839 | 29,305 | 718,451 | 1,462,393 | 1,967,960 | 43,089 | 26,898 | 625,067 | 1,272,906 |
| All owners | 6,029,288 | 142,429 | 70,993 | 1,987,695 | 3,828,171 | 5,217,854 | 138,303 | 62,959 | 1,698,004 | 3,318,588 |

Table 44.--Net volume of growing stock on timberland by species group and forest type, Indiana, 1986

(In thousand cubic feet)

| Species group | All types | Forest type | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Jack-red-white pine | Short-leaf pine | Scotch-Virginia pine | Oak-pine | Oak-hickory | Chestnut-scarlet oak | Sassafras-Persimmon |
| Softwoods | | | | | | | | |
| Jack pine | 6,119 | 4,221 | -- | -- | 104 | 373 | -- | -- |
| Red pine | 6,763 | 5,325 | -- | -- | -- | 1,101 | -- | -- |
| White pine | 39,757 | 31,951 | -- | 948 | 2,753 | 2,016 | -- | -- |
| Shortleaf pine | 29,314 | 4,508 | 19,327 | 1,431 | 794 | 2,180 | -- | -- |
| Other yellow pines | 46,661 | 1,590 | 1,060 | 24,404 | 10,500 | 2,824 | -- | 460 |
| Tamarack | 1,585 | -- | -- | -- | -- | -- | -- | -- |
| Baldcypress | 8,788 | -- | -- | -- | -- | -- | -- | -- |
| Eastern redcedar | 52,586 | -- | 226 | 3,914 | 26,827 | 9,077 | -- | -- |
| Other softwoods | 9,689 | -- | -- | 8,411 | -- | -- | -- | -- |
| Total | 201,262 | 47,595 | 20,613 | 39,108 | 40,978 | 17,571 | -- | 460 |
| Hardwoods | | | | | | | | |
| Select white oak | 670,710 | 711 | -- | 1,555 | 3,796 | 488,141 | 10,835 | 461 |
| Other white oak | 123,634 | -- | 146 | -- | 1,884 | 59,958 | 49,860 | 137 |
| Select red oak | 291,878 | 125 | 1,074 | 190 | 2,552 | 169,881 | 1,457 | -- |
| Other red oak | 497,322 | 168 | 278 | 3,249 | 8,946 | 345,175 | 12,574 | 401 |
| Select hickory | 274,705 | 756 | 1,377 | 219 | 3,340 | 170,262 | 1,200 | -- |
| Other hickory | 299,253 | 688 | 157 | -- | 4,438 | 175,275 | 2,833 | -- |
| Basswood | 67,070 | -- | -- | -- | 2,136 | 9,386 | 238 | -- |
| Beech | 145,972 | -- | 51 | -- | -- | 21,737 | -- | -- |
| Hard maple | 454,732 | 166 | 1,031 | 355 | 2,474 | 79,205 | 2,358 | 755 |
| Soft maple | 243,760 | 719 | 239 | 624 | 763 | 17,475 | 460 | -- |
| Elm | 174,074 | 772 | 26 | 130 | 1,224 | 27,233 | -- | -- |
| Ash | 359,677 | 2,211 | 1,350 | 885 | 5,261 | 63,773 | -- | -- |
| Sycamore | 219,745 | 1,822 | 365 | 3,051 | 1,049 | 23,083 | -- | -- |
| Cottonwood | 129,300 | 1,908 | -- | 8,962 | -- | 3,297 | -- | -- |
| Willow | 13,501 | -- | -- | -- | -- | 228 | -- | -- |
| Hackberry | 51,859 | -- | -- | -- | 97 | 4,177 | -- | -- |
| Aspen | 31,290 | -- | -- | -- | -- | 13,723 | -- | -- |
| Birch | 12,538 | -- | -- | 600 | -- | 789 | -- | -- |
| Sweetgum | 62,099 | 549 | -- | -- | 783 | 7,150 | -- | -- |
| Tupelo | 46,152 | 115 | 84 | 397 | 2,394 | 14,101 | 333 | 499 |
| Black cherry | 102,003 | 1,239 | 763 | 1,092 | 1,155 | 17,965 | 1,388 | -- |
| Black walnut | 127,229 | -- | -- | -- | 1,628 | 24,033 | -- | -- |
| Butternut | 3,981 | -- | -- | -- | -- | 128 | -- | -- |
| Yellow-poplar | 432,602 | 1,725 | 4,152 | 1,747 | 6,534 | 86,684 | -- | 1,131 |
| Persimmon | 12,010 | -- | -- | 523 | 288 | 4,181 | -- | 186 |
| Sassafras | 97,800 | 117 | 1,751 | 564 | 993 | 26,098 | -- | 2,472 |
| Other hardwoods | 71,696 | -- | -- | 422 | 345 | 10,756 | -- | -- |
| Total | 5,016,592 | 13,791 | 12,844 | 24,565 | 52,080 | 1,863,894 | 83,536 | 6,042 |
| All species | 5,217,854 | 61,386 | 33,457 | 63,673 | 93,058 | 1,881,465 | 83,536 | 6,502 |

(Table 44 continued on next page)

(Table 44 continued)

| Species group | Forest type | | | | | | |
|---|---|---|---|---|---|---|---|
| | Oak-gum | Lowland oak | Elm-ash-soft maple | Cotton-wood | Maple-beech | Cherry-ash-yellow-poplar | Non-stocked |
| Softwoods | | | | | | | |
| Jack pine | -- | -- | 153 | 101 | -- | 1,167 | -- |
| Red pine | 232 | -- | 105 | -- | -- | -- | -- |
| White pine | -- | -- | 1,040 | -- | 9 | 1,040 | -- |
| Shortleaf pine | -- | -- | 517 | -- | -- | 557 | -- |
| Other yellow pines | 270 | -- | 1,702 | 494 | 2,934 | 423 | -- |
| Tamarack | -- | -- | 1,585 | -- | -- | -- | -- |
| Baldcypress | 1,060 | -- | 7,728 | -- | -- | -- | -- |
| Eastern redcedar | 151 | -- | 2,600 | -- | 4,273 | 5,518 | -- |
| Other softwoods | 292 | -- | -- | -- | 160 | 826 | -- |
| Total | 2,005 | -- | 15,430 | 595 | 7,376 | 9,531 | -- |
| Hardwoods | | | | | | | |
| Select white oak | 3,002 | 7,645 | 33,106 | -- | 81,173 | 40,074 | 211 |
| Other white oak | 391 | 746 | 198 | -- | 8,196 | 2,118 | -- |
| Select red oak | 1,403 | 300 | 11,222 | -- | 71,057 | 32,617 | -- |
| Other red oak | 7,046 | 18,447 | 35,574 | 147 | 38,267 | 26,574 | 476 |
| Select hickory | 2,649 | 1,226 | 21,965 | -- | 53,441 | 18,270 | -- |
| Other hickory | -- | 924 | 13,488 | -- | 64,675 | 36,775 | -- |
| Basswood | -- | 322 | 7,141 | -- | 40,188 | 7,659 | -- |
| Beech | 302 | -- | 2,657 | -- | 111,691 | 9,534 | -- |
| Hard maple | 422 | -- | 20,354 | -- | 304,307 | 43,305 | -- |
| Soft maple | 7,534 | 1,172 | 155,719 | 3,841 | 40,249 | 14,965 | -- |
| Elm | 652 | 1,814 | 58,985 | -- | 50,933 | 32,041 | 264 |
| Ash | 3,238 | 2,938 | 94,275 | -- | 65,980 | 119,421 | 345 |
| Sycamore | 3,651 | 86 | 105,534 | 1,128 | 38,448 | 40,205 | 1,323 |
| Cottonwood | -- | 605 | 86,021 | 21,287 | 2,713 | 3,823 | 684 |
| Willow | -- | -- | 11,883 | 697 | 313 | 277 | 103 |
| Hackberry | -- | -- | 28,614 | -- | 11,338 | 7,633 | -- |
| Aspen | 578 | -- | 2,352 | -- | 5,007 | 9,630 | -- |
| Birch | 918 | -- | 9,827 | -- | -- | 404 | -- |
| Sweetgum | 20,301 | 1,455 | 17,668 | -- | 7,496 | 6,697 | -- |
| Tupelo | 3,558 | 1,091 | 5,312 | -- | 12,714 | 5,554 | -- |
| Black cherry | 481 | 425 | 13,405 | -- | 37,170 | 26,780 | 140 |
| Black walnut | 396 | -- | 29,651 | -- | 27,690 | 43,831 | -- |
| Butternut | -- | -- | 585 | -- | 3,062 | 206 | -- |
| Yellow-poplar | 4,567 | -- | 37,499 | 110 | 96,201 | 192,252 | -- |
| Persimmon | 526 | -- | 1,339 | -- | 4,143 | 824 | -- |
| Sassafras | 1,949 | 556 | 15,116 | -- | 28,600 | 19,584 | -- |
| Other hardwoods | 249 | 199 | 28,107 | 338 | 23,880 | 7,330 | 70 |
| Total | 63,813 | 39,951 | 847,597 | 27,548 | 1,228,932 | 748,383 | 3,616 |
| All species | 65,818 | 39,951 | 863,027 | 28,143 | 1,236,308 | 757,914 | 3,616 |

Table 45.--Net volume of sawtimber on timberland by species group and forest type, Indiana, 1986

(In thousand board feet)[1/]

| Species group | All types | Forest type | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Jack-red-white pine | Short-leaf pine | Scotch-Virginia pine | Oak-pine | Oak-hickory | Chestnut-scarlet oak | Sassafras-Persimmon |
| Softwoods | | | | | | | | |
| Jack pine | 18,409 | 10,073 | -- | -- | 539 | 1,921 | -- | -- |
| Red pine | 11,919 | 8,466 | -- | -- | -- | 3,453 | -- | -- |
| White pine | 151,387 | 118,692 | -- | 579 | 13,678 | 10,728 | -- | -- |
| Shortleaf pine | 87,129 | 16,448 | 50,918 | 5,677 | 4,093 | 4,875 | -- | -- |
| Other yellow pines | 183,341 | 2,974 | 5,710 | 87,993 | 51,885 | 11,725 | -- | 2,622 |
| Tamarack | 4,208 | -- | -- | -- | -- | -- | -- | -- |
| Baldcypress | 41,635 | -- | -- | -- | -- | -- | -- | -- |
| Eastern redcedar | 113,761 | -- | -- | 9,073 | 61,713 | 21,582 | -- | -- |
| Other softwoods | 4,724 | -- | -- | 4,724 | -- | -- | -- | -- |
| Total | 616,513 | 156,653 | 56,628 | 108,046 | 131,908 | 54,284 | -- | 2,622 |
| Hardwoods | | | | | | | | |
| Select white oak | 2,875,793 | 3,490 | -- | 7,974 | 16,370 | 2,084,914 | 45,833 | 1,594 |
| Other white oak | 533,134 | -- | 751 | -- | 4,390 | 245,587 | 227,598 | -- |
| Select red oak | 1,316,182 | -- | 5,658 | 971 | 11,510 | 762,853 | 6,926 | -- |
| Other red oak | 2,163,418 | -- | 789 | 16,698 | 39,191 | 1,485,849 | 53,870 | 1,480 |
| Select hickory | 939,742 | 1,103 | 6,870 | 1,075 | 14,469 | 560,064 | 4,595 | -- |
| Other hickory | 1,003,171 | 2,076 | 675 | -- | 7,323 | 566,174 | 10,340 | -- |
| Basswood | 253,100 | -- | -- | -- | 10,920 | 36,362 | 1,241 | -- |
| Beech | 608,945 | -- | 270 | -- | -- | 76,896 | -- | -- |
| Hard maple | 1,413,239 | -- | 915 | 1,297 | 5,259 | 186,886 | 3,337 | 3,010 |
| Soft maple | 809,358 | 1,657 | -- | 2,231 | 893 | 38,834 | 838 | -- |
| Elm | 329,362 | 1,492 | -- | -- | 1,284 | 50,324 | -- | -- |
| Ash | 1,174,946 | 8,552 | 2,276 | 1,135 | 14,457 | 199,057 | -- | -- |
| Sycamore | 920,914 | 3,666 | 1,668 | 9,980 | 1,031 | 77,948 | -- | -- |
| Cottonwood | 587,853 | 5,160 | -- | 43,275 | -- | 16,564 | -- | -- |
| Willow | 45,497 | -- | -- | -- | -- | -- | -- | -- |
| Hackberry | 171,147 | -- | -- | -- | -- | 13,986 | -- | -- |
| Aspen | 110,582 | -- | -- | -- | -- | 47,135 | -- | -- |
| Birch | 31,507 | -- | -- | -- | -- | 1,141 | -- | -- |
| Sweetgum | 222,029 | -- | -- | -- | 1,979 | 29,614 | -- | -- |
| Tupelo | 155,667 | -- | 436 | -- | 4,958 | 38,499 | 1,673 | -- |
| Black cherry | 318,703 | -- | -- | 3,866 | 2,505 | 61,996 | 6,006 | -- |
| Black walnut | 427,405 | -- | -- | -- | 2,437 | 73,344 | -- | -- |
| Butternut | 15,368 | -- | -- | -- | -- | -- | -- | -- |
| Yellow-poplar | 1,840,013 | 2,683 | 17,386 | 7,391 | 25,327 | 364,770 | -- | 5,871 |
| Persimmon | 10,011 | -- | -- | -- | -- | 3,354 | -- | -- |
| Sassafras | 162,154 | -- | -- | 835 | 643 | 34,545 | -- | 1,492 |
| Other hardwoods | 168,454 | -- | -- | -- | -- | 29,694 | -- | -- |
| Total | 18,607,694 | 29,879 | 37,694 | 96,728 | 164,946 | 7,086,390 | 362,257 | 13,447 |
| All species | 19,224,207 | 186,532 | 94,322 | 204,774 | 296,854 | 7,140,674 | 362,257 | 16,069 |

[1/] International 1/4-inch rule.

(Table 45 continued on next page)

(Table 45 continued)

| Species group | Forest type | | | | | | |
|---|---|---|---|---|---|---|---|
| | Oak-gum | Lowland oak | Elm-ash-soft maple | Cotton-wood | Maple-beech | Cherry-ash-yellow-poplar | Non-stocked |
| Softwoods | | | | | | | |
| Jack pine | -- | -- | 838 | -- | -- | 5,038 | -- |
| Red pine | -- | -- | -- | -- | -- | -- | -- |
| White pine | -- | -- | 3,778 | -- | -- | 3,932 | -- |
| Shortleaf pine | -- | -- | 2,579 | -- | -- | 2,539 | -- |
| Other yellow pines | 1,424 | -- | 3,029 | -- | 14,156 | 1,823 | -- |
| Tamarack | -- | -- | 4,208 | -- | -- | -- | -- |
| Baldcypress | 5,296 | -- | 36,339 | -- | -- | -- | -- |
| Eastern redcedar | -- | -- | 1,661 | -- | 10,810 | 8,922 | -- |
| Other softwoods | -- | -- | -- | -- | -- | -- | -- |
| Total | 6,720 | -- | 52,432 | -- | 24,966 | 22,254 | -- |
| Hardwoods | | | | | | | |
| Select white oak | 11,331 | 31,470 | 148,035 | -- | 365,697 | 157,992 | 1,093 |
| Other white oak | 2,059 | 3,878 | 1,010 | -- | 39,995 | 7,866 | -- |
| Select red oak | 7,343 | 976 | 52,253 | -- | 326,168 | 141,524 | -- |
| Other red oak | 35,838 | 86,430 | 157,943 | -- | 167,248 | 115,764 | 2,318 |
| Select hickory | 8,355 | 1,755 | 77,267 | -- | 207,026 | 57,163 | -- |
| Other hickory | -- | 2,886 | 51,402 | -- | 241,169 | 121,126 | -- |
| Basswood | -- | 965 | 27,059 | -- | 159,033 | 17,520 | -- |
| Beech | 990 | -- | 8,980 | -- | 486,404 | 35,405 | -- |
| Hard maple | 903 | -- | 60,516 | -- | 1,061,816 | 89,300 | -- |
| Soft maple | 20,944 | 4,683 | 555,291 | 14,420 | 121,994 | 47,573 | -- |
| Elm | 1,668 | -- | 99,567 | -- | 126,104 | 48,923 | -- |
| Ash | 14,656 | 8,002 | 306,732 | -- | 237,205 | 382,874 | -- |
| Sycamore | 16,032 | -- | 451,796 | 1,119 | 172,570 | 178,401 | 6,703 |
| Cottonwood | -- | 3,062 | 401,670 | 83,258 | 12,252 | 19,185 | 3,427 |
| Willow | -- | -- | 44,769 | -- | -- | 728 | -- |
| Hackberry | -- | -- | 95,901 | -- | 41,655 | 19,605 | -- |
| Aspen | 2,880 | -- | 4,422 | -- | 17,113 | 39,032 | -- |
| Birch | 2,805 | -- | 26,752 | -- | -- | 809 | -- |
| Sweetgum | 70,981 | 5,649 | 66,919 | -- | 25,443 | 21,444 | -- |
| Tupelo | 11,599 | 4,619 | 24,088 | -- | 48,592 | 21,203 | -- |
| Black cherry | 2,484 | 2,085 | 23,688 | -- | 136,346 | 79,727 | -- |
| Black walnut | 2,067 | -- | 103,811 | -- | 102,410 | 143,336 | -- |
| Butternut | -- | -- | 2,871 | -- | 11,428 | 1,069 | -- |
| Yellow-poplar | 23,044 | -- | 159,026 | -- | 419,008 | 815,507 | -- |
| Persimmon | -- | -- | -- | -- | 4,459 | 2,198 | -- |
| Sassafras | 670 | 1,200 | 35,667 | -- | 61,185 | 25,917 | -- |
| Other hardwoods | 894 | 978 | 73,399 | 1,750 | 49,879 | 11,860 | -- |
| Total | 237,543 | 158,638 | 3,060,834 | 100,547 | 4,642,199 | 2,603,051 | 13,541 |
| All species | 244,263 | 158,638 | 3,113,266 | 100,547 | 4,667,165 | 2,625,305 | 13,541 |

Table 46.--Net volume of growing stock on timberland by species group and ownership class, Indiana, 1986

(In thousand cubic feet)

| Species group | All owners | Ownership class | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | National forest | Misc. federal | State | County & municipal | Forest industry | Farmer | Misc. priv.-corp. | Misc. priv.-indiv. |
| Softwoods | | | | | | | | | |
| Jack pine | 6,119 | -- | -- | 1,268 | -- | -- | 2,350 | 454 | 2,047 |
| Red pine | 6,763 | -- | -- | 626 | -- | -- | 2,993 | 2,161 | 983 |
| White pine | 39,757 | 2,049 | -- | 4,355 | -- | -- | 8,296 | 10,895 | 14,162 |
| Shortleaf pine | 29,314 | 16,803 | 154 | -- | -- | -- | 3,678 | 3,331 | 5,348 |
| Other yellow pines | 46,661 | -- | 80 | 6,510 | -- | -- | 11,287 | 8,235 | 20,549 |
| Tamarack | 1,585 | -- | -- | 1,585 | -- | -- | -- | -- | -- |
| Baldcypress | 8,788 | -- | -- | -- | -- | -- | -- | 1,345 | 7,443 |
| Eastern redcedar | 52,586 | 3,418 | 479 | 1,417 | 176 | -- | 24,587 | 3,054 | 19,455 |
| Other softwoods | 9,689 | -- | -- | 452 | -- | -- | 9,237 | -- | -- |
| Total | 201,262 | 22,270 | 713 | 16,213 | 176 | -- | 62,428 | 29,475 | 69,987 |
| Hardwoods | | | | | | | | | |
| Select white oak | 670,710 | 55,583 | 41,405 | 63,972 | 5,007 | 5,964 | 223,280 | 40,567 | 234,932 |
| Other white oak | 123,634 | 19,312 | 2,365 | 29,731 | 1,502 | 798 | 12,095 | 5,842 | 51,989 |
| Select red oak | 291,878 | 11,470 | 10,106 | 16,556 | 1,494 | 2,190 | 101,710 | 31,909 | 116,443 |
| Other red oak | 497,322 | 31,279 | 27,596 | 44,626 | 1,382 | 3,493 | 163,599 | 42,037 | 183,310 |
| Select hickory | 274,705 | 9,611 | 12,379 | 6,721 | 910 | 1,343 | 107,449 | 20,200 | 116,092 |
| Other hickory | 299,253 | 16,934 | 14,937 | 13,052 | 516 | 2,627 | 114,339 | 17,543 | 119,305 |
| Basswood | 67,070 | 142 | 2,805 | 3,549 | 277 | -- | 28,712 | 6,751 | 24,834 |
| Beech | 145,972 | 4,033 | 5,144 | 5,547 | -- | 2,787 | 60,132 | 14,789 | 53,540 |
| Hard maple | 454,732 | 15,277 | 16,610 | 9,619 | 1,241 | 3,100 | 181,452 | 44,123 | 183,310 |
| Soft maple | 243,760 | 3,023 | 12,784 | 13,003 | 3,171 | -- | 128,024 | 15,266 | 68,489 |
| Elm | 174,074 | 1,373 | 1,785 | 3,511 | 1,636 | 745 | 82,508 | 22,092 | 60,424 |
| Ash | 359,677 | 9,803 | 7,914 | 10,764 | 3,475 | -- | 156,898 | 36,338 | 134,485 |
| Sycamore | 219,745 | 6,784 | 8,924 | 6,081 | 830 | -- | 96,313 | 20,186 | 80,627 |
| Cottonwood | 129,300 | -- | 2,245 | 1,907 | 8,656 | -- | 78,220 | 15,321 | 22,951 |
| Willow | 13,501 | -- | -- | -- | 313 | -- | 3,555 | 618 | 9,015 |
| Hackberry | 51,859 | -- | 543 | 628 | 208 | -- | 23,660 | 4,211 | 22,609 |
| Aspen | 31,290 | 2,496 | 2,907 | 153 | -- | -- | 10,535 | 3,997 | 11,202 |
| Birch | 12,538 | 55 | 317 | 926 | -- | -- | 5,351 | 958 | 4,931 |
| Sweetgum | 62,099 | 1,108 | 989 | 3,064 | -- | -- | 26,483 | 4,626 | 25,829 |
| Tupelo | 46,152 | 2,699 | 1,150 | 3,504 | -- | 340 | 17,806 | 2,615 | 18,038 |
| Black cherry | 102,003 | 2,255 | 2,924 | 3,343 | 1,875 | -- | 43,590 | 9,707 | 38,309 |
| Black walnut | 127,229 | 475 | 4,581 | 2,384 | 994 | 346 | 61,561 | 12,378 | 44,510 |
| Butternut | 3,981 | -- | -- | -- | 783 | -- | 2,123 | 585 | 490 |
| Yellow-poplar | 432,602 | 17,209 | 22,547 | 17,411 | 582 | 921 | 154,595 | 32,255 | 187,082 |
| Persimmon | 12,010 | 112 | 420 | 1,096 | -- | -- | 3,601 | 1,460 | 5,321 |
| Sassafras | 97,800 | 4,576 | 2,058 | 4,610 | -- | 1,830 | 29,143 | 7,368 | 48,215 |
| Other hardwoods | 71,696 | 946 | 3,356 | 564 | 1,304 | -- | 27,600 | 6,235 | 31,691 |
| Total | 5,016,592 | 216,555 | 208,791 | 266,322 | 36,156 | 26,484 | 1,944,334 | 419,977 | 1,897,973 |
| All species | 5,217,854 | 238,825 | 209,504 | 282,535 | 36,332 | 26,484 | 2,006,762 | 449,452 | 1,967,960 |

Table 47.--Net volume of sawtimber on timberland by species group and ownership class, Indiana, 1986

(In thousand board feet)[1/]

| Species group | All owners | Ownership class | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | National forest | Misc. federal | State | County & municipal | Forest industry | Farmer | Misc. priv.-corp. | Misc. priv.-indiv. |
| Softwoods | | | | | | | | | |
| Jack pine | 18,409 | -- | -- | 5,038 | -- | -- | 7,001 | -- | 6,370 |
| Red pine | 11,919 | -- | -- | 2,034 | -- | -- | 5,127 | 2,400 | 2,358 |
| White pine | 151,387 | 7,729 | -- | 18,080 | -- | -- | 33,407 | 49,426 | 42,745 |
| Shortleaf pine | 87,129 | 43,459 | 840 | -- | -- | -- | 11,684 | 15,958 | 15,188 |
| Other yellow pines | 183,341 | -- | -- | 25,739 | -- | -- | 45,962 | 19,913 | 91,727 |
| Tamarack | 4,208 | -- | -- | 4,208 | -- | -- | -- | -- | -- |
| Baldcypress | 41,635 | -- | -- | -- | -- | -- | -- | 6,766 | 34,869 |
| Eastern redcedar | 113,761 | 11,072 | 1,019 | 7,897 | -- | -- | 34,799 | 15,101 | 43,873 |
| Other softwoods | 4,724 | -- | -- | -- | -- | -- | 4,724 | -- | -- |
| Total | 616,513 | 62,260 | 1,859 | 62,996 | -- | -- | 142,704 | 109,564 | 237,130 |
| Hardwoods | | | | | | | | | |
| Select white oak | 2,875,793 | 226,466 | 191,806 | 262,461 | 23,915 | 23,830 | 971,010 | 182,706 | 993,599 |
| Other white oak | 533,134 | 83,313 | 11,324 | 128,435 | 6,981 | 2,279 | 52,526 | 23,943 | 224,333 |
| Select red oak | 1,316,182 | 47,465 | 40,269 | 72,738 | 7,456 | 9,787 | 465,724 | 146,745 | 525,998 |
| Other red oak | 2,163,418 | 129,778 | 124,916 | 198,132 | 6,068 | 12,854 | 706,901 | 189,900 | 794,869 |
| Select hickory | 939,742 | 36,520 | 38,785 | 20,670 | 4,717 | 4,663 | 364,987 | 69,206 | 400,194 |
| Other hickory | 1,003,171 | 45,912 | 44,893 | 44,506 | 676 | 12,858 | 386,034 | 65,589 | 402,703 |
| Basswood | 253,100 | -- | 11,088 | 14,881 | 1,422 | -- | 107,267 | 26,630 | 91,812 |
| Beech | 608,945 | 12,122 | 16,963 | 26,647 | -- | 14,463 | 254,479 | 64,954 | 219,317 |
| Hard maple | 1,413,239 | 38,545 | 45,865 | 14,923 | 6,222 | 12,381 | 628,041 | 129,204 | 538,058 |
| Soft maple | 809,358 | 6,674 | 33,394 | 44,161 | 10,888 | -- | 450,388 | 46,128 | 217,725 |
| Elm | 329,362 | 718 | 2,328 | 8,687 | 1,717 | 821 | 155,771 | 48,169 | 111,151 |
| Ash | 1,174,946 | 18,139 | 18,528 | 34,313 | 5,432 | -- | 529,626 | 118,473 | 450,435 |
| Sycamore | 920,914 | 12,979 | 38,186 | 22,595 | 3,025 | -- | 424,873 | 65,644 | 353,612 |
| Cottonwood | 587,853 | -- | 9,919 | 5,591 | 40,541 | -- | 365,909 | 55,574 | 110,319 |
| Willow | 45,497 | -- | -- | -- | -- | -- | 5,836 | -- | 39,661 |
| Hackberry | 171,147 | -- | 2,796 | 1,867 | 1,067 | -- | 69,862 | 15,279 | 80,276 |
| Aspen | 110,582 | 8,509 | 12,676 | -- | -- | -- | 38,430 | 14,068 | 36,899 |
| Birch | 31,507 | 124 | 903 | 1,862 | -- | -- | 16,027 | -- | 12,591 |
| Sweetgum | 222,029 | 4,846 | 4,560 | 9,837 | -- | -- | 98,475 | 10,799 | 93,512 |
| Tupelo | 155,667 | 8,275 | 909 | 12,202 | -- | 1,449 | 59,115 | 9,260 | 64,457 |
| Black cherry | 318,703 | 6,066 | 6,069 | 13,003 | 3,188 | -- | 132,963 | 30,960 | 126,454 |
| Black walnut | 427,405 | 2,460 | 12,701 | 7,357 | 4,358 | 876 | 210,600 | 46,971 | 142,082 |
| Butternut | 15,368 | -- | -- | -- | 4,008 | -- | 7,420 | 2,871 | 1,069 |
| Yellow-poplar | 1,840,013 | 74,366 | 97,073 | 73,681 | 1,896 | 3,544 | 662,235 | 125,687 | 801,531 |
| Persimmon | 10,011 | -- | -- | -- | -- | -- | 2,297 | 2,856 | 4,858 |
| Sassafras | 162,154 | 1,925 | 2,732 | 1,263 | -- | 4,048 | 47,035 | 16,592 | 88,559 |
| Other hardwoods | 168,454 | 4,080 | 7,014 | 835 | -- | -- | 70,559 | 10,668 | 75,298 |
| Total | 18,607,694 | 769,282 | 775,697 | 1,020,647 | 133,577 | 103,853 | 7,284,390 | 1,518,876 | 7,001,372 |
| All species | 19,224,207 | 831,542 | 777,556 | 1,083,643 | 133,577 | 103,853 | 7,427,094 | 1,628,440 | 7,238,502 |

[1/] International 1/4-inch rule.

Table 48.--Net volume of growing stock on timberland by forest type and stand-age class, Indiana, 1986

(In thousand cubic feet)

| Unit and forest type | All ages | Stand-age class (years) 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | 101-120 | 121-140 | 141+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| All Units | | | | | | | | | | | | | | |
| Jack-red-white pine | 61,386 | -- | 5,275 | 22,067 | 26,164 | 7,880 | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | 33,457 | 744 | -- | -- | 25,467 | 4,865 | 2,381 | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 63,673 | 981 | 6,120 | 1,820 | 30,693 | 18,001 | 2,308 | 3,750 | -- | -- | -- | -- | -- | -- |
| Oak-pine | 93,058 | 4,306 | 12,267 | 11,855 | 19,583 | 23,869 | 9,891 | 2,828 | 7,141 | -- | 1,318 | -- | -- | -- |
| Oak-hickory | 1,881,465 | 46,683 | 43,933 | 55,331 | 77,277 | 179,086 | 312,109 | 304,755 | 288,844 | 269,798 | 130,592 | 139,654 | 26,033 | 7,370 |
| Chestnut-scarlet oak | 83,536 | -- | -- | -- | 158 | -- | 4,059 | 18,387 | 9,379 | 24,822 | 14,064 | 2,781 | 9,886 | -- |
| Sassafras-persimmon | 6,502 | 1,459 | 2,728 | -- | -- | -- | 2,315 | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 65,818 | 858 | 1,797 | -- | 2,376 | 27,730 | 6,289 | 8,694 | -- | 9,283 | 5,223 | 3,568 | -- | -- |
| Lowland oak | 39,951 | 408 | -- | 987 | 1,130 | -- | 6,958 | 14,409 | 9,452 | 6,607 | -- | -- | -- | -- |
| Elm-ash-soft maple | 863,027 | 25,894 | 44,728 | 86,048 | 127,803 | 194,654 | 126,343 | 103,967 | 88,264 | 39,659 | 10,598 | 10,100 | 605 | 4,364 |
| Cottonwood | 28,143 | -- | 1,568 | 12,756 | -- | 2,207 | 7,922 | 2,873 | 817 | -- | -- | -- | -- | -- |
| Maple-beech | 1,236,308 | 30,275 | 47,387 | 50,517 | 86,573 | 146,673 | 233,430 | 196,923 | 167,378 | 136,890 | 51,312 | 66,992 | 12,458 | 9,500 |
| Cherry-ash-yellow-poplar | 757,914 | 16,833 | 30,986 | 71,246 | 135,901 | 214,869 | 132,889 | 90,439 | 36,520 | 19,805 | 8,426 | -- | -- | -- |
| Nonstocked | 3,616 | 3,616 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 5,217,854 | 132,057 | 196,789 | 312,627 | 533,125 | 819,834 | 846,894 | 747,025 | 607,795 | 506,864 | 221,533 | 223,095 | 48,982 | 21,234 |
| Lower Wabash Unit | | | | | | | | | | | | | | |
| Jack-red-white pine | 11,737 | -- | -- | 4,004 | 7,733 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | 906 | -- | -- | -- | 906 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 14,843 | 426 | 578 | 254 | 2,356 | 8,921 | 2,308 | -- | -- | -- | -- | -- | -- | -- |
| Oak-pine | 1,309 | -- | -- | 1,309 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-hickory | 422,436 | 15,501 | 6,855 | 17,821 | 13,649 | 35,574 | 92,704 | 61,916 | 75,157 | 71,988 | 10,929 | 20,342 | -- | -- |
| Chestnut-scarlet oak | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sassafras-persimmon | 847 | -- | 847 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 14,317 | -- | -- | -- | -- | 7,374 | -- | 1,720 | -- | -- | 5,223 | -- | -- | -- |
| Lowland oak | 11,162 | 408 | -- | -- | -- | -- | 4,402 | 4,624 | 1,728 | -- | -- | -- | -- | -- |
| Elm-ash-soft maple | 255,799 | 8,395 | 21,135 | 15,244 | 33,850 | 79,258 | 47,972 | 20,471 | 23,334 | 6,140 | -- | -- | -- | -- |
| Cottonwood | 11,132 | -- | -- | 3,210 | -- | -- | 7,922 | -- | -- | -- | -- | -- | -- | -- |
| Maple-beech | 190,965 | 3,671 | 5,519 | 11,817 | 10,090 | 42,771 | 39,757 | 21,376 | 28,155 | 12,859 | 7,668 | 2,236 | 5,046 | -- |
| Cherry-ash-yellow-poplar | 151,788 | 254 | 10,196 | 13,054 | 31,751 | 46,471 | 11,484 | 22,989 | 8,663 | 6,926 | -- | -- | -- | -- |
| Nonstocked | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 1,087,241 | 28,655 | 45,130 | 66,713 | 100,335 | 220,369 | 206,549 | 133,096 | 137,037 | 97,913 | 23,820 | 22,578 | 5,046 | -- |
| Knobs Unit | | | | | | | | | | | | | | |
| Jack-red-white pine | 26,602 | -- | 380 | 16,472 | 9,750 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | 32,551 | 744 | -- | -- | 24,561 | 4,865 | 2,381 | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 33,102 | 555 | 4,992 | 1,566 | 13,159 | 9,080 | -- | 3,750 | -- | -- | -- | -- | -- | -- |
| Oak-pine | 60,671 | 3,067 | 3,949 | 6,127 | 5,203 | 23,869 | 9,891 | 2,828 | 5,737 | -- | -- | -- | -- | -- |
| Oak-hickory | 992,343 | 19,305 | 27,479 | 17,151 | 44,160 | 95,179 | 157,208 | 167,782 | 135,235 | 163,537 | 74,817 | 76,550 | 12,201 | 1,739 |
| Chestnut-scarlet oak | 73,089 | -- | -- | -- | -- | -- | 4,059 | 13,715 | 9,379 | 19,205 | 14,064 | 2,781 | 9,886 | -- |
| Sassafras-persimmon | 5,655 | 1,459 | 1,881 | -- | -- | -- | 2,315 | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 35,593 | -- | 746 | -- | 2,376 | 12,817 | 6,289 | 6,974 | -- | 2,823 | -- | 3,568 | -- | -- |
| Lowland oak | 2,690 | -- | -- | -- | -- | -- | -- | 2,690 | -- | -- | -- | -- | -- | -- |
| Elm-ash-soft maple | 239,219 | 12,344 | 17,085 | 20,694 | 35,641 | 40,528 | 37,378 | 40,380 | 25,374 | 8,198 | 846 | 751 | -- | -- |
| Cottonwood | 4,441 | -- | 1,568 | -- | -- | -- | -- | 2,873 | -- | -- | -- | -- | -- | -- |
| Maple-beech | 547,210 | 20,420 | 20,145 | 9,984 | 56,104 | 37,188 | 116,711 | 84,027 | 76,489 | 70,140 | 29,509 | 26,493 | -- | -- |
| Cherry-ash-yellow-poplar | 288,395 | 9,158 | 9,499 | 24,862 | 59,797 | 92,344 | 43,120 | 18,293 | 17,886 | 8,079 | 5,357 | -- | -- | -- |
| Nonstocked | 183 | 183 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 2,341,744 | 67,235 | 87,724 | 96,856 | 250,751 | 315,870 | 379,352 | 343,312 | 270,100 | 271,982 | 124,593 | 110,143 | 22,087 | 1,739 |

(Table 48 continued on next page)

(Table 48 continued)

| Unit and forest type | All ages | Stand-age class (years) 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | 101-120 | 121-140 | 141+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Upland Flats Unit | | | | | | | | | | | | | | |
| Jack-red-white pine | 8,119 | -- | -- | -- | 8,119 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 550 | -- | 550 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-pine | 30,878 | 1,239 | 8,118 | 4,419 | 14,380 | -- | -- | -- | 1,404 | -- | 1,318 | -- | -- | -- |
| Oak-hickory | 150,883 | 5,081 | 3,333 | 3,814 | 6,945 | 25,555 | 13,478 | 28,448 | 33,270 | 9,438 | 13,938 | 7,583 | -- | -- |
| Chestnut-scarlet oak | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 9,448 | 858 | 1,051 | -- | -- | 7,539 | -- | -- | -- | -- | -- | -- | -- | -- |
| Lowland oak | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Elm-ash-soft maple | 59,961 | 844 | 1,444 | 9,088 | 7,326 | 16,459 | 7,520 | -- | 6,139 | 7,557 | 2,979 | -- | 605 | -- |
| Cottonwood | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Maple-beech | 159,644 | 1,453 | 10,446 | 3,903 | 8,316 | 3,283 | 40,440 | 29,655 | 20,702 | 26,908 | -- | 14,538 | -- | -- |
| Cherry-ash-yellow-poplar | 128,960 | 4,454 | 6,858 | 17,464 | 11,541 | 26,324 | 35,983 | 25,162 | 1,174 | -- | -- | -- | -- | -- |
| Nonstocked | 771 | 771 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 549,214 | 14,700 | 31,800 | 38,688 | 56,627 | 79,160 | 97,421 | 83,265 | 62,689 | 43,903 | 18,235 | 22,121 | 605 | -- |
| Northern Unit | | | | | | | | | | | | | | |
| Jack-red-white pine | 14,928 | -- | 4,895 | 1,591 | 562 | 7,880 | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 15,178 | -- | -- | -- | 15,178 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-pine | 200 | -- | 200 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-hickory | 315,803 | 6,796 | 6,266 | 16,545 | 12,523 | 22,778 | 48,719 | 46,609 | 45,182 | 24,835 | 30,908 | 35,179 | 13,832 | 5,631 |
| Chestnut-scarlet oak | 10,447 | -- | -- | -- | 158 | -- | -- | 4,672 | -- | 5,617 | -- | -- | -- | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 6,460 | -- | -- | -- | -- | -- | -- | -- | -- | 6,460 | -- | -- | -- | -- |
| Lowland oak | 26,099 | -- | -- | 987 | 1,130 | -- | 2,556 | 7,095 | 7,724 | 6,607 | -- | -- | -- | -- |
| Elm-ash-soft maple | 308,048 | 4,311 | 5,064 | 41,022 | 50,986 | 58,409 | 33,473 | 43,116 | 33,417 | 17,764 | 6,773 | 9,349 | -- | 4,364 |
| Cottonwood | 12,570 | -- | -- | 9,546 | -- | 2,207 | -- | -- | 817 | -- | -- | -- | -- | -- |
| Maple-beech | 338,489 | 4,731 | 11,277 | 24,813 | 12,063 | 63,431 | 36,522 | 61,865 | 42,032 | 26,983 | 14,135 | 23,725 | 7,412 | 9,500 |
| Cherry-ash-yellow-poplar | 188,771 | 2,967 | 4,433 | 15,866 | 32,812 | 49,730 | 42,302 | 23,995 | 8,797 | 4,800 | 3,069 | -- | -- | -- |
| Nonstocked | 2,662 | 2,662 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 1,239,655 | 21,467 | 32,135 | 110,370 | 125,412 | 204,435 | 163,572 | 187,352 | 137,969 | 93,066 | 54,885 | 68,253 | 21,244 | 19,495 |

Table 49.--Net volume of sawtimber on timberland by forest type and stand-age class, Indiana, 1986

(In thousand board feet)[1/]

| Unit and forest type | All ages | Stand-age class (years) 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 |
|---|---|---|---|---|---|---|---|---|
| All Units | | | | | | | | |
| Jack-red-white pine | 186,532 | -- | 10,261 | 59,495 | 86,894 | 29,882 | -- | -- |
| Shortleaf pine | 94,322 | 1,897 | -- | -- | 64,006 | 17,635 | 10,784 | -- |
| Scotch-Virginia pine | 204,774 | --- | 12,929 | 1,656 | 94,652 | 71,823 | 7,010 | 16,704 |
| Oak-pine | 296,854 | 9,205 | 38,607 | 17,954 | 55,803 | 95,286 | 41,561 | 15,044 |
| Oak-hickory | 7,140,674 | 154,929 | 118,979 | 136,933 | 201,876 | 614,746 | 1,143,155 | 1,186,182 |
| Chestnut-scarlet oak | 362,257 | -- | -- | -- | 493 | -- | 17,314 | 77,736 |
| Sassafras-persimmon | 16,069 | 5,696 | 2,485 | -- | -- | -- | 7,888 | -- |
| Oak-gum | 244,263 | 3,703 | 4,873 | -- | 3,662 | 103,265 | 30,056 | 34,998 |
| Lowland oak | 158,638 | 1,990 | -- | -- | 3,681 | -- | 31,345 | 60,667 |
| Elm-ash-soft maple | 3,113,266 | 61,130 | 122,552 | 234,502 | 402,317 | 730,049 | 494,910 | 431,643 |
| Cottonwood | 100,547 | -- | 801 | 37,293 | -- | 11,075 | 34,636 | 13,538 |
| Maple-beech | 4,667,165 | 79,022 | 121,294 | 115,164 | 251,405 | 580,452 | 903,930 | 790,170 |
| Cherry-ash-yellow-poplar | 2,625,305 | 53,154 | 66,630 | 178,728 | 461,012 | 787,693 | 482,213 | 340,685 |
| Nonstocked | 13,541 | 13,541 | -- | -- | -- | -- | -- | -- |
| Total | 19,224,207 | 384,267 | 499,411 | 781,725 | 1,625,801 | 3,041,906 | 3,204,802 | 2,967,367 |
| Lower Wabash Unit | | | | | | | | |
| Jack-red-white pine | 38,863 | -- | -- | 12,982 | 25,881 | -- | -- | -- |
| Shortleaf pine | 2,041 | -- | -- | -- | 2,041 | -- | -- | -- |
| Scotch-Virginia pine | 41,424 | -- | 1,131 | -- | 4,960 | 28,323 | 7,010 | -- |
| Oak-pine | 4,093 | -- | -- | 4,093 | -- | -- | -- | -- |
| Oak-hickory | 1,645,880 | 55,438 | 15,756 | 47,941 | 39,267 | 124,612 | 364,829 | 254,137 |
| Chestnut-scarlet oak | -- | -- | -- | -- | -- | -- | -- | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 48,658 | -- | -- | -- | -- | 22,613 | -- | 7,456 |
| Lowland oak | 51,044 | 1,990 | -- | -- | -- | -- | 21,247 | 20,758 |
| Elm-ash-soft maple | 941,337 | 19,948 | 56,315 | 41,909 | 115,432 | 309,262 | 188,065 | 94,933 |
| Cottonwood | 38,226 | -- | -- | 3,590 | -- | -- | 34,636 | -- |
| Maple-beech | 674,013 | 9,652 | 15,691 | 26,249 | 27,583 | 159,597 | 132,593 | 74,830 |
| Cherry-ash-yellow-poplar | 541,189 | -- | 23,278 | 53,764 | 113,671 | 176,716 | 40,993 | 78,481 |
| Nonstocked | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 4,026,768 | 87,028 | 112,171 | 190,528 | 328,835 | 821,123 | 789,373 | 530,595 |
| Knobs Unit | | | | | | | | |
| Jack-red-white pine | 77,572 | -- | -- | 43,542 | 34,030 | -- | -- | -- |
| Shortleaf pine | 92,281 | 1,897 | -- | -- | 61,965 | 17,635 | 10,784 | -- |
| Scotch-Virginia pine | 118,557 | -- | 10,900 | 1,656 | 45,797 | 43,500 | -- | 16,704 |
| Oak-pine | 216,517 | 8,283 | 14,973 | 10,180 | 15,898 | 95,286 | 41,561 | 15,044 |
| Oak-hickory | 3,738,667 | 62,080 | 74,908 | 39,952 | 132,672 | 338,263 | 538,643 | 640,013 |
| Chestnut-scarlet oak | 315,322 | -- | -- | -- | -- | -- | 17,314 | 58,968 |
| Sassafras-persimmon | 16,069 | 5,696 | 2,485 | -- | -- | -- | 7,888 | -- |
| Oak-gum | 137,441 | -- | 3,839 | -- | 3,662 | 49,111 | 30,056 | 27,542 |
| Lowland oak | 11,516 | -- | -- | -- | -- | -- | -- | 11,516 |
| Elm-ash-soft maple | 846,568 | 29,605 | 49,836 | 41,582 | 117,446 | 142,462 | 151,224 | 170,024 |
| Cottonwood | 14,339 | -- | 801 | -- | -- | -- | -- | 13,538 |
| Maple-beech | 2,081,174 | 46,629 | 52,877 | 15,040 | 173,689 | 144,470 | 466,332 | 346,026 |
| Cherry-ash-yellow-poplar | 1,022,822 | 30,144 | 20,906 | 66,455 | 198,190 | 355,794 | 158,442 | 68,866 |
| Nonstocked | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 8,688,845 | 184,334 | 231,525 | 218,407 | 783,349 | 1,186,521 | 1,422,244 | 1,368,241 |

(Table 49 continued on next page)

[1/] International 1/4-inch rule.

(Table 49 continued)

| Unit and forest type | All ages | Stand-age class (years) 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 |
|---|---|---|---|---|---|---|---|---|
| Upland Flats Unit | | | | | | | | |
| Jack-red-white pine | 26,044 | -- | -- | -- | 26,044 | -- | -- | -- |
| Shortleaf pine | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 898 | -- | 898 | -- | -- | -- | -- | -- |
| Oak-pine | 75,102 | 922 | 22,492 | 3,681 | 39,905 | -- | -- | -- |
| Oak-hickory | 566,087 | 9,784 | 9,375 | 9,074 | 11,187 | 97,209 | 45,838 | 111,992 |
| Chestnut-scarlet oak | -- | -- | -- | -- | -- | -- | -- | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 36,278 | 3,703 | 1,034 | -- | -- | 31,541 | -- | -- |
| Lowland oak | -- | -- | -- | -- | -- | -- | -- | -- |
| Elm-ash-soft maple | 206,728 | 1,487 | 4,137 | 22,748 | 13,801 | 64,038 | 24,571 | -- |
| Cottonwood | -- | -- | -- | -- | -- | -- | -- | -- |
| Maple-beech | 599,813 | 4,383 | 22,757 | 11,002 | 17,488 | 14,584 | 155,502 | 126,583 |
| Cherry-ash-yellow-poplar | 411,670 | 16,899 | 9,793 | 37,997 | 31,752 | 88,416 | 127,985 | 94,514 |
| Nonstocked | 3,921 | 3,921 | -- | -- | -- | -- | -- | -- |
| Total | 1,926,541 | 41,099 | 70,486 | 84,502 | 140,177 | 295,788 | 353,896 | 333,089 |
| Northern Unit | | | | | | | | |
| Jack-red-white pine | 44,053 | -- | 10,261 | 2,971 | 939 | 29,882 | -- | -- |
| Shortleaf pine | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 43,895 | -- | -- | -- | 43,895 | -- | -- | -- |
| Oak-pine | 1,142 | -- | 1,142 | -- | -- | -- | -- | -- |
| Oak-hickory | 1,190,040 | 27,627 | 18,940 | 39,966 | 18,750 | 54,662 | 193,845 | 180,040 |
| Chestnut-scarlet oak | 46,935 | -- | -- | -- | 493 | -- | -- | 18,768 |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 21,886 | -- | -- | -- | -- | -- | -- | -- |
| Lowland oak | 96,078 | -- | -- | -- | 3,681 | -- | 10,098 | 28,393 |
| Elm-ash-soft maple | 1,118,633 | 10,090 | 12,264 | 128,263 | 155,638 | 214,287 | 131,050 | 166,686 |
| Cottonwood | 47,982 | -- | -- | 33,703 | -- | 11,075 | -- | -- |
| Maple-beech | 1,312,165 | 18,358 | 29,969 | 62,873 | 32,645 | 261,801 | 149,503 | 242,731 |
| Cherry-ash-yellow-poplar | 649,624 | 6,111 | 12,653 | 20,512 | 117,399 | 166,767 | 154,793 | 98,824 |
| Nonstocked | 9,620 | 9,620 | -- | -- | -- | -- | -- | -- |
| Total | 4,582,053 | 71,806 | 85,229 | 288,288 | 373,440 | 738,474 | 639,289 | 735,442 |

(Table 49 continued on next page)

(Table 49 continued)

| Unit and forest type | Stand-age class (years) | | | | | |
|---|---|---|---|---|---|---|
| | 71-80 | 81-90 | 91-100 | 101-120 | 121-140 | 141+ |
| All Units | | | | | | |
| Jack-red-white pine | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | -- | -- | -- | -- | -- | -- |
| Oak-pine | 18,945 | -- | 4,449 | -- | -- | -- |
| Oak-hickory | 1,174,673 | 1,115,503 | 538,470 | 604,004 | 118,792 | 32,432 |
| Chestnut-scarlet oak | 40,987 | 111,208 | 61,275 | 11,201 | 42,043 | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- |
| Oak-gum | -- | 32,598 | 18,589 | 12,519 | -- | -- |
| Lowland oak | 40,259 | 20,696 | -- | -- | -- | -- |
| Elm-ash-soft maple | 340,109 | 177,578 | 49,198 | 45,987 | 3,063 | 20,228 |
| Cottonwood | 3,204 | -- | -- | -- | -- | -- |
| Maple-beech | 678,821 | 545,424 | 218,480 | 291,071 | 47,487 | 44,445 |
| Cherry-ash-yellow-poplar | 139,622 | 83,524 | 32,044 | -- | -- | -- |
| Nonstocked | -- | -- | -- | -- | -- | -- |
| Total | 2,436,620 | 2,086,531 | 922,505 | 964,782 | 211,385 | 97,105 |
| Lower Wabash Unit | | | | | | |
| Jack-red-white pine | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | -- | -- | -- | -- | -- | -- |
| Oak-pine | -- | -- | -- | -- | -- | -- |
| Oak-hickory | 307,069 | 309,538 | 40,501 | 86,792 | -- | -- |
| Chestnut-scarlet oak | -- | -- | -- | -- | -- | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- |
| Oak-gum | -- | -- | 18,589 | -- | -- | -- |
| Lowland oak | 7,049 | -- | -- | -- | -- | -- |
| Elm-ash-soft maple | 93,462 | 22,011 | -- | -- | -- | -- |
| Cottonwood | -- | -- | -- | -- | -- | -- |
| Maple-beech | 110,837 | 55,887 | 32,407 | 10,452 | 18,235 | -- |
| Cherry-ash-yellow-poplar | 27,466 | 26,820 | -- | -- | -- | -- |
| Nonstocked | -- | -- | -- | -- | -- | -- |
| Total | 545,883 | 414,256 | 91,497 | 97,244 | 18,235 | -- |
| Knobs Unit | | | | | | |
| Jack-red-white pine | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | -- | -- | -- | -- | -- | -- |
| Oak-pine | 15,292 | -- | -- | -- | -- | -- |
| Oak-hickory | 547,781 | 671,456 | 300,587 | 329,056 | 56,428 | 6,828 |
| Chestnut-scarlet oak | 40,987 | 83,534 | 61,275 | 11,201 | 42,043 | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- |
| Oak-gum | -- | 10,712 | -- | 12,519 | -- | -- |
| Lowland oak | -- | -- | -- | -- | -- | -- |
| Elm-ash-soft maple | 98,288 | 39,750 | 3,098 | 3,253 | -- | -- |
| Cottonwood | -- | -- | -- | -- | -- | -- |
| Maple-beech | 316,092 | 284,759 | 124,267 | 110,993 | -- | -- |
| Cherry-ash-yellow-poplar | 69,527 | 35,172 | 19,326 | -- | -- | -- |
| Nonstocked | -- | -- | -- | -- | -- | -- |
| Total | 1,087,967 | 1,125,383 | 508,553 | 467,022 | 98,471 | 6,828 |

(Table 49 continued on next page)

(Table 49 continued)

| Unit and forest type | Stand-age class (years) | | | | | |
|---|---|---|---|---|---|---|
| | 71-80 | 81-90 | 91-100 | 101-120 | 121-140 | 141+ |
| Upland Flats Unit | | | | | | |
| Jack-red-white pine | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | -- | -- | -- | -- | -- | -- |
| Oak-pine | 3,653 | -- | 4,449 | -- | -- | -- |
| Oak-hickory | 139,495 | 37,856 | 60,606 | 33,671 | -- | -- |
| Chestnut-scarlet oak | -- | -- | -- | -- | -- | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- |
| Oak-gum | -- | -- | -- | -- | -- | -- |
| Lowland oak | -- | -- | -- | -- | -- | -- |
| Elm-ash-soft maple | 26,694 | 32,352 | 13,837 | -- | 3,063 | -- |
| Cottonwood | -- | -- | -- | -- | -- | -- |
| Maple-beech | 75,849 | 105,722 | -- | 65,943 | -- | -- |
| Cherry-ash-yellow-poplar | 4,314 | -- | -- | -- | -- | -- |
| Nonstocked | -- | -- | -- | -- | -- | -- |
| Total | 250,005 | 175,930 | 78,892 | 99,614 | 3,063 | -- |
| Northern Unit | | | | | | |
| Jack-red-white pine | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | -- | -- | -- | -- | -- | -- |
| Oak-pine | -- | -- | -- | -- | -- | -- |
| Oak-hickory | 180,328 | 96,653 | 136,776 | 154,485 | 62,364 | 25,604 |
| Chestnut-scarlet oak | -- | 27,674 | -- | -- | -- | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- |
| Oak-gum | -- | 21,886 | -- | -- | -- | -- |
| Lowland oak | 33,210 | 20,696 | -- | -- | -- | -- |
| Elm-ash-soft maple | 121,665 | 83,465 | 32,263 | 42,734 | -- | 20,228 |
| Cottonwood | 3,204 | -- | -- | -- | -- | -- |
| Maple-beech | 176,043 | 99,056 | 61,806 | 103,683 | 29,252 | 44,445 |
| Cherry-ash-yellow-poplar | 38,315 | 21,532 | 12,718 | -- | -- | -- |
| Nonstocked | -- | -- | -- | -- | -- | -- |
| Total | 552,765 | 370,962 | 243,563 | 300,902 | 91,616 | 90,277 |

Table 50.--Net volume of growing stock on timberland by forest type, stand-size class, and basal-area class, Indiana, 1986

(In thousand cubic feet)

| Forest type and stand-size class | All classes | Basal-area class (square feet per acre) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | 101-120 | 121-150 | 151-180 | 181+ |
| Jack-red-white pine | | | | | | | | | | | | | | | |
| Sawtimber | 38,835 | -- | -- | -- | -- | 1,368 | -- | -- | -- | 3,842 | -- | 12,002 | -- | 21,623 | -- |
| Poletimber | 22,171 | -- | -- | -- | 562 | -- | -- | -- | -- | 2,493 | 1,591 | 9,130 | 3,500 | 4,895 | -- |
| Sapling & seedling | 380 | -- | -- | -- | -- | -- | -- | 380 | -- | -- | -- | -- | -- | -- | -- |
| All stands | 61,386 | -- | -- | -- | 562 | 1,368 | -- | 380 | -- | 6,335 | 1,591 | 21,132 | 3,500 | 26,518 | -- |
| Shortleaf pine | | | | | | | | | | | | | | | |
| Sawtimber | 12,388 | -- | -- | -- | -- | -- | -- | -- | 613 | 2,220 | -- | 6,302 | 3,253 | -- | -- |
| Poletimber | 20,325 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 20,325 | -- | -- | -- |
| Sapling & seedling | 744 | -- | -- | -- | -- | 744 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 33,457 | -- | -- | -- | -- | 744 | -- | -- | 613 | 2,220 | -- | 26,627 | 3,253 | -- | -- |
| Scotch-Virginia pine | | | | | | | | | | | | | | | |
| Sawtimber | 35,302 | -- | -- | -- | -- | -- | -- | -- | -- | 8,071 | -- | 15,668 | 11,563 | -- | -- |
| Poletimber | 22,120 | -- | -- | -- | -- | 1,458 | -- | -- | 1,832 | 958 | 3,753 | 2,356 | -- | 11,763 | -- |
| Sapling & seedling | 6,251 | -- | 603 | 108 | 84 | -- | 1,207 | 2,868 | 831 | -- | -- | 550 | -- | -- | -- |
| All stands | 63,673 | -- | 603 | 108 | 84 | 1,458 | 1,207 | 2,868 | 2,663 | 9,029 | 3,753 | 18,574 | 11,563 | 11,763 | -- |
| Oak-pine | | | | | | | | | | | | | | | |
| Sawtimber | 56,363 | -- | -- | -- | -- | 1,086 | 2,919 | 2,926 | 1,309 | 12,332 | 3,107 | 25,572 | 7,112 | -- | -- |
| Poletimber | 25,707 | -- | -- | -- | -- | -- | 2,066 | 4,354 | 7,735 | 2,791 | -- | 3,744 | 5,017 | -- | -- |
| Sapling & seedling | 10,988 | -- | 104 | -- | 852 | 605 | 3,820 | 2,508 | 2,025 | 1,074 | -- | -- | -- | -- | -- |
| All stands | 93,058 | -- | 104 | -- | 852 | 1,691 | 8,805 | 9,788 | 11,069 | 16,197 | 3,107 | 29,316 | 12,129 | -- | -- |
| Oak-hickory | | | | | | | | | | | | | | | |
| Sawtimber | 1,605,516 | -- | 345 | 542 | 1,722 | 16,771 | 48,950 | 42,139 | 128,584 | 316,757 | 224,327 | 551,789 | 244,607 | 25,551 | 3,432 |
| Poletimber | 185,569 | -- | -- | 964 | -- | 2,750 | 19,462 | 29,331 | 40,904 | 25,866 | 25,730 | 30,496 | 10,066 | -- | -- |
| Sapling & seedling | 90,380 | 287 | 3,163 | 8,495 | 6,564 | 12,355 | 25,952 | 14,341 | 10,538 | 7,767 | -- | 918 | -- | -- | -- |
| All stands | 1,881,465 | 287 | 3,508 | 10,001 | 8,286 | 31,876 | 94,364 | 85,811 | 180,026 | 350,390 | 250,057 | 583,203 | 254,673 | 25,551 | 3,432 |
| Chestnut-scarlet oak | | | | | | | | | | | | | | | |
| Sawtimber | 83,536 | -- | -- | 158 | -- | -- | 1,755 | 3,076 | -- | 21,648 | 14,175 | 32,132 | 10,592 | -- | -- |
| Poletimber | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 83,536 | -- | -- | 158 | -- | -- | 1,755 | 3,076 | -- | 21,648 | 14,175 | 32,132 | 10,592 | -- | -- |
| Sassafras-persimmon | | | | | | | | | | | | | | | |
| Sawtimber | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Poletimber | 4,196 | -- | -- | -- | -- | -- | -- | -- | 1,881 | -- | -- | 2,315 | -- | -- | -- |
| Sapling & seedling | 2,306 | -- | -- | -- | -- | 1,459 | -- | 847 | -- | -- | -- | -- | -- | -- | -- |
| All stands | 6,502 | -- | -- | -- | -- | 1,459 | -- | 847 | 1,881 | -- | -- | 2,315 | -- | -- | -- |
| Oak-gum | | | | | | | | | | | | | | | |
| Sawtimber | 57,835 | -- | -- | -- | 227 | -- | -- | -- | 1,720 | -- | 12,693 | 26,251 | 16,944 | -- | -- |
| Poletimber | 5,328 | -- | -- | -- | -- | -- | -- | -- | -- | 2,952 | -- | 2,376 | -- | -- | -- |
| Sapling & seedling | 2,655 | -- | 393 | 465 | 746 | 384 | -- | 667 | -- | -- | -- | -- | -- | -- | -- |
| All stands | 65,818 | -- | 393 | 465 | 973 | 384 | -- | 667 | 1,720 | 2,952 | 12,693 | 28,627 | 16,944 | -- | -- |

(Table 50 continued on next page)

(Table 50 continued)

| Forest type and stand-size class | All classes | Basal-area class (square feet per acre) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | 101-120 | 121-150 | 151-180 | 181+ |
| Lowland oak | | | | | | | | | | | | | | | |
| Sawtimber | 37,426 | -- | -- | -- | -- | 880 | -- | 1,623 | -- | 4,418 | -- | 30,505 | -- | -- | -- |
| Poletimber | 2,117 | -- | -- | -- | -- | -- | -- | 1,130 | 987 | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | 408 | -- | -- | 408 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 39,951 | -- | -- | 408 | -- | 880 | -- | 2,753 | 987 | 4,418 | -- | 30,505 | -- | -- | -- |
| Elm-ash-soft maple | | | | | | | | | | | | | | | |
| Sawtimber | 678,726 | -- | -- | 4,929 | 7,121 | 13,209 | 7,444 | 30,811 | 66,754 | 84,831 | 97,993 | 184,284 | 126,103 | 44,002 | 11,245 |
| Poletimber | 132,945 | -- | -- | 660 | 4,387 | 4,960 | 8,983 | 13,945 | 28,461 | 25,123 | 16,504 | 29,922 | -- | -- | -- |
| Sapling & seedling | 51,356 | 139 | 1,644 | 2,875 | 9,381 | 10,683 | 7,166 | 3,697 | 9,139 | 6,632 | -- | -- | -- | -- | -- |
| All stands | 863,027 | 139 | 1,644 | 8,464 | 20,889 | 28,852 | 23,593 | 48,453 | 104,354 | 116,586 | 114,497 | 214,206 | 126,103 | 44,002 | 11,245 |
| Cottonwood | | | | | | | | | | | | | | | |
| Sawtimber | 23,365 | -- | -- | -- | 817 | 2,207 | -- | -- | 2,873 | -- | -- | 9,546 | 7,922 | -- | -- |
| Poletimber | 4,778 | -- | -- | -- | -- | -- | 3,882 | 896 | -- | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 28,143 | -- | -- | -- | 817 | 2,207 | 3,882 | 896 | 2,873 | -- | -- | 9,546 | 7,922 | -- | -- |
| Maple-beech | | | | | | | | | | | | | | | |
| Sawtimber | 1,055,981 | -- | -- | 1,435 | 2,475 | 17,517 | 59,723 | 48,006 | 131,700 | 154,424 | 132,572 | 328,793 | 150,786 | 28,550 | -- |
| Poletimber | 106,014 | -- | -- | -- | 643 | 2,002 | 7,990 | 11,483 | 18,182 | 16,010 | 7,050 | 37,728 | 4,926 | -- | -- |
| Sapling & seedling | 74,313 | -- | 2,707 | 979 | 5,705 | 17,196 | 12,369 | 18,997 | 10,529 | -- | 2,097 | 3,734 | -- | -- | -- |
| All stands | 1,236,308 | -- | 2,707 | 2,414 | 8,823 | 36,715 | 80,082 | 78,486 | 160,411 | 170,434 | 141,719 | 370,255 | 155,712 | 28,550 | -- |
| Cherry-ash-yellow-poplar | | | | | | | | | | | | | | | |
| Sawtimber | 612,421 | 1,325 | -- | 1,655 | 761 | 6,478 | 13,101 | 31,994 | 37,204 | 84,592 | 58,812 | 232,651 | 120,719 | 15,768 | 7,361 |
| Poletimber | 101,661 | -- | -- | 1,070 | -- | -- | 7,150 | 6,132 | 20,370 | 25,904 | 8,930 | 18,082 | 14,023 | -- | -- |
| Sapling & seedling | 43,832 | 536 | 1,955 | 4,510 | 3,735 | 9,290 | 6,932 | 4,250 | 7,341 | 3,929 | 1,354 | -- | -- | -- | -- |
| All stands | 757,914 | 1,861 | 1,955 | 7,235 | 4,496 | 15,768 | 27,183 | 42,376 | 64,915 | 114,425 | 69,096 | 250,733 | 134,742 | 15,768 | 7,361 |
| Nonstocked | 3,616 | 367 | 80 | 1,116 | -- | 70 | 1,469 | -- | 60 | -- | 454 | -- | -- | -- | -- |
| All types | | | | | | | | | | | | | | | |
| Sawtimber | 4,297,694 | 1,325 | 345 | 8,719 | 13,123 | 59,516 | 133,892 | 160,575 | 370,757 | 693,135 | 543,679 | 1,455,495 | 699,601 | 135,494 | 22,038 |
| Poletimber | 632,931 | -- | -- | 2,694 | 5,592 | 11,170 | 49,533 | 67,271 | 120,352 | 102,097 | 63,558 | 156,474 | 37,532 | 16,658 | -- |
| Sapling & seedling | 283,613 | 962 | 10,569 | 17,840 | 27,067 | 52,716 | 57,446 | 48,555 | 40,403 | 19,402 | 3,451 | 5,202 | -- | -- | -- |
| Nonstocked | 3,616 | 367 | 80 | 1,116 | -- | 70 | 1,469 | -- | 60 | -- | 454 | -- | -- | -- | -- |
| All stands | 5,217,854 | 2,654 | 10,994 | 30,369 | 45,782 | 123,472 | 242,340 | 276,401 | 531,572 | 814,634 | 611,142 | 1,617,171 | 737,133 | 152,152 | 22,038 |

Table 51.--Net volume of sawtimber on timberland by forest type, stand-size class, and basal-area class, Indiana, 1986

(In thousand board feet)[1/]

| Forest type and stand-size class | All classes | Basal area class (square feet per acre) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | 0-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 |
| Jack-red-white pine | | | | | | | | | |
| Sawtimber | 143,529 | -- | -- | -- | -- | 6,036 | -- | -- | -- |
| Poletimber | 43,003 | -- | -- | -- | 939 | -- | -- | -- | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 186,532 | -- | -- | -- | 939 | 6,036 | -- | -- | -- |
| Shortleaf pine | | | | | | | | | |
| Sawtimber | 46,294 | -- | -- | -- | -- | -- | -- | -- | 2,509 |
| Poletimber | 46,131 | -- | -- | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | 1,897 | -- | -- | -- | -- | 1,897 | -- | -- | -- |
| All stands | 94,322 | -- | -- | -- | -- | 1,897 | -- | -- | 2,509 |
| Scotch-Virginia pine | | | | | | | | | |
| Sawtimber | 138,901 | -- | -- | -- | -- | -- | -- | -- | -- |
| Poletimber | 52,966 | -- | -- | -- | -- | 1,099 | -- | -- | 6,864 |
| Sapling & seedling | 12,907 | -- | 1,223 | 557 | -- | -- | 1,131 | 9,098 | -- |
| All stands | 204,774 | -- | 1,223 | 557 | -- | 1,099 | 1,131 | 9,098 | 6,864 |
| Oak-pine | | | | | | | | | |
| Sawtimber | 216,546 | -- | -- | -- | -- | 3,939 | 9,945 | 8,661 | 4,093 |
| Poletimber | 53,949 | -- | -- | -- | -- | -- | 2,642 | 6,383 | 17,021 |
| Sapling & seedling | 26,359 | -- | 539 | -- | 1,142 | -- | 13,902 | 8,815 | -- |
| All stands | 296,854 | -- | 539 | -- | 1,142 | 3,939 | 26,489 | 23,859 | 21,114 |
| Oak-hickory | | | | | | | | | |
| Sawtimber | 6,483,936 | -- | 1,063 | 1,533 | 8,018 | 65,353 | 196,577 | 155,277 | 508,292 |
| Poletimber | 383,685 | -- | -- | 1,133 | -- | 5,709 | 38,456 | 68,028 | 80,069 |
| Sapling & seedling | 273,053 | 769 | 10,853 | 23,129 | 20,537 | 29,560 | 80,324 | 42,166 | 40,263 |
| All stands | 7,140,674 | 769 | 11,916 | 25,795 | 28,555 | 100,622 | 315,357 | 265,471 | 628,624 |
| Chestnut-scarlet oak | | | | | | | | | |
| Sawtimber | 362,257 | -- | -- | 493 | -- | -- | 5,167 | 13,284 | -- |
| Poletimber | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 362,257 | -- | -- | 493 | -- | -- | 5,167 | 13,284 | -- |
| Sassafras-persimmon | | | | | | | | | |
| Sawtimber | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Poletimber | 10,373 | -- | -- | -- | -- | -- | -- | -- | 2,485 |
| Sapling & seedling | 5,696 | -- | -- | -- | -- | 5,696 | -- | -- | -- |
| All stands | 16,069 | -- | -- | -- | -- | 5,696 | -- | -- | 2,485 |
| Oak-gum | | | | | | | | | |
| Sawtimber | 224,884 | -- | -- | -- | 1,184 | -- | -- | -- | 7,456 |
| Poletimber | 10,803 | -- | -- | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | 8,576 | -- | 2,052 | 1,651 | 3,839 | 1,034 | -- | -- | -- |
| All stands | 244,263 | -- | 2,052 | 1,651 | 5,023 | 1,034 | -- | -- | 7,456 |

(Table 51 continued on next page)

[1/] International 1/4-inch rule.

(Table 51 continued)

| Forest type and stand-size class | All classes | Basal area class (square feet per acre) 0-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 |
|---|---|---|---|---|---|---|---|---|---|
| Lowland oak | | | | | | | | | |
| Sawtimber | 152,967 | -- | -- | -- | -- | 4,312 | -- | 8,390 | -- |
| Poletimber | 3,681 | -- | -- | -- | -- | -- | -- | 3,681 | -- |
| Sapling & seedling | 1,990 | -- | -- | 1,990 | -- | -- | -- | -- | -- |
| All stands | 158,638 | -- | -- | 1,990 | -- | 4,312 | -- | 12,071 | -- |
| Elm-ash-soft-maple | | | | | | | | | |
| Sawtimber | 2,705,465 | -- | -- | 21,965 | 29,635 | 54,018 | 30,908 | 116,132 | 249,419 |
| Poletimber | 286,612 | -- | -- | 1,033 | 9,631 | 10,862 | 13,981 | 34,791 | 52,264 |
| Sapling & seedling | 121,189 | -- | 4,656 | 6,918 | 20,144 | 26,512 | 25,070 | 9,630 | 19,835 |
| All Stands | 3,113,266 | -- | 4,656 | 29,916 | 59,410 | 91,392 | 69,959 | 160,553 | 321,518 |
| Cottonwood | | | | | | | | | |
| Sawtimber | 96,156 | -- | -- | -- | 3,204 | 11,075 | -- | -- | 13,538 |
| Poletimber | 4,391 | -- | -- | -- | -- | -- | 4,391 | -- | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 100,547 | -- | -- | -- | 3,204 | 11,075 | 4,391 | -- | 13,538 |
| Maple-beech | | | | | | | | | |
| Sawtimber | 4,248,799 | -- | -- | 5,852 | 11,046 | 74,196 | 236,741 | 189,959 | 524,838 |
| Poletimber | 222,226 | -- | -- | -- | 1,047 | 4,458 | 20,382 | 25,715 | 28,795 |
| Sapling & seedling | 196,140 | -- | 8,065 | 1,661 | 15,811 | 41,888 | 28,662 | 57,585 | 28,164 |
| All stands | 4,667,165 | -- | 8,065 | 7,513 | 27,904 | 120,542 | 285,785 | 273,259 | 581,797 |
| Cherry-ash-yellow-poplar | | | | | | | | | |
| Sawtimber | 2,322,789 | 5,023 | -- | 7,869 | 2,724 | 29,308 | 50,486 | 118,999 | 148,627 |
| Poletimber | 185,051 | -- | -- | 1,484 | -- | -- | 14,822 | 5,181 | 32,640 |
| Sapling & seedling | 117,465 | -- | 1,175 | 8,425 | 9,749 | 27,253 | 25,462 | 4,322 | 20,868 |
| All stands | 2,625,305 | 5,023 | 1,175 | 17,778 | 12,473 | 56,561 | 90,770 | 128,502 | 202,135 |
| Nonstocked | 13,541 | -- | -- | 3,921 | -- | -- | 7,408 | -- | -- |
| All types | | | | | | | | | |
| Sawtimber | 17,142,523 | 5,023 | 1,063 | 37,712 | 55,811 | 248,237 | 529,824 | 610,702 | 1,458,772 |
| Poletimber | 1,302,871 | -- | -- | 3,650 | 11,617 | 22,128 | 94,674 | 143,779 | 220,138 |
| Sapling & seedling | 765,272 | 769 | 28,563 | 44,331 | 71,222 | 133,840 | 174,551 | 131,616 | 109,130 |
| Nonstocked | 13,541 | -- | -- | 3,921 | -- | -- | 7,408 | -- | -- |
| All stands | 19,224,207 | 5,792 | 29,626 | 89,614 | 138,650 | 404,205 | 806,457 | 886,097 | 1,788,040 |

(Table 51 continued on next page)

(Table 51 continued)

| Forest type and stand-size class | Basal area class (square feet per acre) | | | | | |
|---|---|---|---|---|---|---|
| | 81-90 | 91-100 | 101-120 | 121-150 | 151-180 | 181+ |
| Jack-red-white pine | | | | | | |
| Sawtimber | 17,110 | -- | 46,382 | -- | 74,001 | -- |
| Poletimber | 2,400 | 2,971 | 18,668 | 7,764 | 10,261 | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- |
| All stands | 19,510 | 2,971 | 65,050 | 7,764 | 84,262 | -- |
| Shortleaf pine | | | | | | |
| Sawtimber | 9,869 | -- | 22,232 | 11,684 | -- | -- |
| Poletimber | -- | -- | 46,131 | -- | -- | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- |
| All stands | 9,869 | -- | 68,363 | 11,684 | -- | -- |
| Scotch-Virginia pine | | | | | | |
| Sawtimber | 32,554 | -- | 59,383 | 46,964 | -- | -- |
| Poletimber | 579 | 10,139 | 4,960 | -- | 29,325 | -- |
| Sapling & seedling | -- | -- | 898 | -- | -- | -- |
| All stands | 33,133 | 10,139 | 65,241 | 46,964 | 29,325 | -- |
| Oak-pine | | | | | | |
| Sawtimber | 39,236 | 7,686 | 112,430 | 30,556 | -- | -- |
| Poletimber | 5,020 | -- | 7,711 | 15,172 | -- | -- |
| Sapling & seedling | 1,961 | -- | -- | -- | -- | -- |
| All stands | 46,217 | 7,686 | 120,141 | 45,728 | -- | -- |
| Oak-hickory | | | | | | |
| Sawtimber | 1,255,399 | 921,227 | 2,229,496 | 1,018,708 | 108,927 | 14,066 |
| Poletimber | 57,498 | 59,329 | 53,232 | 20,231 | -- | -- |
| Sapling & seedling | 24,590 | -- | 862 | -- | -- | -- |
| All stands | 1,337,487 | 980,556 | 2,283,590 | 1,038,939 | 108,927 | 14,066 |
| Chestnut-scarlet oak | | | | | | |
| Sawtimber | 91,179 | 62,472 | 142,576 | 47,086 | -- | -- |
| Poletimber | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- |
| All stands | 91,179 | 62,472 | 142,576 | 47,086 | -- | -- |
| Sassafras-persimmon | | | | | | |
| Sawtimber | -- | -- | -- | -- | -- | -- |
| Poletimber | -- | -- | 7,888 | -- | -- | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- |
| All stands | -- | -- | 7,888 | -- | -- | -- |
| Oak-gum | | | | | | |
| Sawtimber | -- | 51,562 | 98,452 | 66,230 | -- | -- |
| Poletimber | 7,141 | -- | 3,662 | -- | -- | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- |
| All stands | 7,141 | 51,562 | 102,114 | 66,230 | -- | -- |

(Table 51 continued on next page)

(Table 51 continued)

| Forest type and stand-size class | Basal area class (square feet per acre) | | | | | |
|---|---|---|---|---|---|---|
| | 81-90 | 91-100 | 101-120 | 121-150 | 151-180 | 181+ |
| Lowland oak | | | | | | |
| Sawtimber | 18,565 | -- | 121,700 | -- | -- | -- |
| Poletimber | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- |
| All stands | 18,565 | -- | 121,700 | -- | -- | -- |
| Elm-ash-soft-maple | | | | | | |
| Sawtimber | 338,791 | 390,027 | 721,452 | 513,363 | 190,648 | 49,107 |
| Poletimber | 60,704 | 29,572 | 73,774 | -- | -- | -- |
| Sapling & seedling | 8,424 | -- | -- | -- | -- | -- |
| All stands | 407,919 | 419,599 | 795,226 | 513,363 | 190,648 | 49,107 |
| Cottonwood | | | | | | |
| Sawtimber | -- | -- | 33,703 | 34,636 | -- | -- |
| Poletimber | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- |
| All stands | -- | -- | 33,703 | 34,636 | -- | -- |
| Maple-beech | | | | | | |
| Sawtimber | 614,695 | 519,970 | 1,320,443 | 630,264 | 120,795 | -- |
| Poletimber | 34,471 | 9,892 | 85,612 | 11,854 | -- | -- |
| Sapling & seedling | -- | 2,522 | 11,782 | -- | -- | -- |
| All stands | 649,166 | 532,384 | 1,417,837 | 642,118 | 120,795 | -- |
| Cherry-ash-yellow-poplar | | | | | | |
| Sawtimber | 294,233 | 221,293 | 902,754 | 452,755 | 52,466 | 36,252 |
| Poletimber | 57,380 | 16,702 | 28,337 | 28,505 | -- | -- |
| Sapling & seedling | 14,100 | 6,111 | -- | -- | -- | -- |
| All stands | 365,713 | 244,106 | 931,091 | 481,260 | 52,466 | 36,252 |
| Nonstocked | -- | 2,212 | -- | -- | -- | -- |
| All types | | | | | | |
| Sawtimber | 2,711,631 | 2,174,237 | 5,811,003 | 2,852,246 | 546,837 | 99,425 |
| Poletimber | 225,193 | 128,605 | 329,975 | 83,526 | 39,586 | -- |
| Sapling & seedling | 49,075 | 8,633 | 13,542 | -- | -- | -- |
| Nonstocked | -- | 2,212 | -- | -- | -- | -- |
| All stands | 2,985,899 | 2,313,687 | 6,154,520 | 2,935,772 | 586,423 | 99,425 |

Table 52.--Net volume of growing stock and sawtimber on timberland by county and species group, Indiana, 1986

| Unit and county | Growing stock | | | | | Sawtimber | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All species | Pine | Other softwoods | Soft hardwoods | Hard hardwoods | All species | Pine | Other softwoods | Soft hardwoods | Hard hardwoods |
| | Thousand cubic feet | | | | | Thousand board feet[1] | | | | |
| **Lower Wabash Unit** | | | | | | | | | | |
| Clay | 54,350 | 2,139 | 683 | 19,875 | 31,653 | 201,560 | 7,336 | 3,187 | 72,457 | 118,580 |
| Daviess | 51,379 | 834 | 480 | 19,272 | 30,793 | 190,478 | 2,793 | 2,216 | 67,843 | 117,626 |
| Gibson | 49,000 | 1,129 | 663 | 19,476 | 27,732 | 176,850 | 3,862 | 3,089 | 67,290 | 102,609 |
| Greene | 124,809 | 4,199 | 1,638 | 46,837 | 72,135 | 452,848 | 14,001 | 7,761 | 159,881 | 271,205 |
| Knox | 34,410 | 224 | 119 | 12,608 | 21,459 | 125,878 | 712 | 437 | 45,522 | 79,207 |
| Martin | 182,406 | 768 | 173 | 58,748 | 122,717 | 707,052 | 1,713 | 456 | 220,816 | 484,067 |
| Parke | 113,973 | 3,278 | 2,044 | 46,542 | 62,109 | 413,849 | 11,729 | 9,692 | 164,619 | 227,809 |
| Pike | 106,030 | 2,499 | 1,529 | 41,793 | 60,209 | 384,936 | 8,848 | 7,229 | 145,734 | 223,125 |
| Posey | 60,703 | 765 | 482 | 22,213 | 37,243 | 229,581 | 2,704 | 2,188 | 81,677 | 143,012 |
| Putnam | 98,882 | 383 | 141 | 34,410 | 63,948 | 374,028 | 1,120 | 352 | 133,362 | 239,194 |
| Sullivan | 81,544 | 2,056 | 1,062 | 31,031 | 47,395 | 298,467 | 7,278 | 5,016 | 107,987 | 178,186 |
| Vanderburgh | 29,304 | 434 | 237 | 11,067 | 17,566 | 106,337 | 1,470 | 1,073 | 39,582 | 64,212 |
| Vermillion | 41,650 | 477 | 169 | 14,517 | 26,487 | 153,001 | 1,608 | 747 | 50,764 | 99,882 |
| Vigo | 58,801 | 1,197 | 686 | 22,997 | 33,921 | 211,903 | 4,074 | 3,181 | 79,378 | 125,270 |
| Total | 1,087,241 | 20,382 | 10,106 | 401,386 | 655,367 | 4,026,768 | 69,248 | 46,624 | 1,436,912 | 2,473,984 |
| **Knobs Unit** | | | | | | | | | | |
| Brown | 190,259 | 8,195 | 2,461 | 48,910 | 130,693 | 714,793 | 29,540 | 6,691 | 174,604 | 503,958 |
| Clark | 112,526 | 7,291 | 1,740 | 31,268 | 72,227 | 420,750 | 27,797 | 4,946 | 110,599 | 277,408 |
| Crawford | 157,423 | 4,623 | 2,146 | 42,229 | 108,425 | 582,098 | 15,055 | 5,262 | 148,508 | 413,273 |
| Dubois | 124,001 | 4,060 | 1,594 | 34,760 | 83,587 | 470,282 | 16,686 | 3,692 | 125,336 | 324,568 |
| Floyd | 47,433 | 1,374 | 543 | 14,521 | 30,995 | 180,034 | 5,916 | 1,206 | 54,808 | 118,104 |
| Harrison | 175,761 | 6,689 | 3,656 | 51,713 | 113,703 | 641,916 | 24,888 | 8,139 | 178,209 | 430,680 |
| Jackson | 159,454 | 5,021 | 2,711 | 44,822 | 106,900 | 575,103 | 13,959 | 6,485 | 151,358 | 403,301 |
| Lawrence | 180,706 | 3,411 | 1,620 | 45,880 | 129,795 | 687,495 | 12,534 | 4,411 | 166,445 | 504,105 |
| Monroe | 165,021 | 3,820 | 1,713 | 45,161 | 114,327 | 618,137 | 12,813 | 4,049 | 160,031 | 441,244 |
| Morgan | 109,257 | 3,048 | 1,986 | 32,002 | 72,221 | 401,468 | 10,326 | 4,788 | 113,332 | 273,022 |
| Orange | 176,616 | 6,318 | 3,205 | 47,124 | 119,969 | 648,722 | 19,654 | 8,536 | 164,657 | 455,875 |
| Owen | 140,177 | 4,755 | 2,055 | 43,397 | 89,970 | 528,332 | 20,687 | 4,748 | 162,214 | 340,683 |
| Perry | 213,369 | 12,765 | 3,221 | 51,015 | 146,368 | 778,940 | 38,823 | 9,271 | 175,047 | 555,799 |
| Scott | 55,632 | 2,236 | 924 | 15,822 | 36,650 | 205,427 | 8,010 | 2,247 | 54,767 | 140,403 |
| Spencer | 78,458 | 2,959 | 1,315 | 22,610 | 51,574 | 291,161 | 11,500 | 3,100 | 78,946 | 197,615 |
| Warrick | 95,835 | 4,284 | 2,011 | 30,517 | 59,023 | 340,965 | 13,605 | 4,750 | 102,429 | 220,181 |
| Washington | 159,816 | 7,721 | 2,246 | 49,255 | 100,594 | 603,222 | 33,974 | 4,898 | 183,363 | 380,987 |
| Total | 2,341,744 | 88,570 | 35,147 | 651,006 | 1,567,021 | 8,688,845 | 315,767 | 87,219 | 2,304,653 | 5,981,206 |
| **Upland Flats Unit** | | | | | | | | | | |
| Dearborn | 86,497 | 154 | 2,306 | 30,892 | 53,145 | 300,737 | 495 | 3,042 | 112,604 | 184,596 |
| Fayette | 25,332 | 92 | 442 | 9,049 | 15,749 | 81,280 | 426 | 775 | 31,055 | 49,024 |
| Franklin | 61,558 | 278 | 1,616 | 20,519 | 39,145 | 199,848 | 1,063 | 2,961 | 69,953 | 125,871 |
| Jefferson | 85,451 | 4,381 | 3,844 | 27,589 | 49,637 | 305,240 | 15,438 | 4,592 | 103,230 | 181,980 |
| Jennings | 82,835 | 170 | 2,082 | 29,975 | 50,608 | 288,264 | 674 | 3,101 | 110,005 | 174,484 |
| Ohio | 25,277 | 49 | 679 | 8,894 | 15,655 | 86,903 | 174 | 912 | 32,085 | 53,732 |
| Ripley | 76,125 | 2,648 | 2,759 | 24,366 | 46,352 | 271,884 | 9,438 | 3,628 | 90,054 | 168,764 |
| Switzerland | 90,286 | 151 | 1,364 | 31,045 | 57,726 | 341,015 | 602 | 1,059 | 121,672 | 217,682 |
| Union | 15,853 | 55 | 420 | 5,641 | 9,737 | 51,370 | 214 | 740 | 19,137 | 31,279 |
| Total | 549,214 | 7,978 | 15,512 | 187,970 | 337,754 | 1,926,541 | 28,524 | 20,810 | 689,795 | 1,187,412 |

[1] International 1/4-inch rule.

(Table 52 continued on next page)

(Table 52 continued)

| Unit and county | Growing stock | | | | | Sawtimber | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All species | Pine | Other softwoods | Soft hardwoods | Hard hardwoods | All species | Pine | Other softwoods | Soft hardwoods | Hard hardwoods |
| | Thousand cubic feet | | | | | Thousand board feet[1/] | | | | |
| Northern Unit | | | | | | | | | | |
| Adams | 16,408 | 220 | 38 | 5,997 | 10,153 | 61,593 | 451 | 91 | 21,026 | 40,025 |
| Allen | 26,954 | 591 | 32 | 10,026 | 16,305 | 96,699 | 1,296 | 22 | 32,849 | 62,532 |
| Bartholomew | 53,422 | 428 | 111 | 18,788 | 34,095 | 203,754 | 879 | 267 | 66,389 | 136,219 |
| Benton | 1,938 | 30 | 3 | 708 | 1,197 | 7,241 | 59 | 8 | 2,463 | 4,711 |
| Blackford | 12,009 | 50 | 29 | 4,127 | 7,803 | 46,569 | 97 | 74 | 14,906 | 31,492 |
| Boone | 17,396 | 70 | 46 | 5,937 | 11,343 | 66,503 | 142 | 108 | 20,781 | 45,472 |
| Carroll | 21,031 | 237 | 49 | 7,455 | 13,290 | 79,198 | 480 | 120 | 25,982 | 52,616 |
| Cass | 26,154 | 662 | 33 | 10,177 | 15,282 | 94,732 | 1,350 | 70 | 34,654 | 58,658 |
| Clinton | 11,342 | 34 | 27 | 3,690 | 7,591 | 44,083 | 75 | 66 | 13,207 | 30,735 |
| Decatur | 30,582 | 164 | 72 | 10,322 | 20,024 | 118,120 | 330 | 178 | 36,884 | 80,728 |
| De Kalb | 29,326 | 830 | 32 | 11,661 | 16,803 | 105,108 | 1,676 | 67 | 39,410 | 63,955 |
| Delaware | 16,516 | 368 | 20 | 6,219 | 9,909 | 59,820 | 755 | 30 | 20,762 | 38,273 |
| Elkhart | 30,309 | 570 | 81 | 11,437 | 18,221 | 110,484 | 1,146 | 203 | 38,812 | 70,323 |
| Fountain | 41,490 | 1,026 | 53 | 16,130 | 24,281 | 151,318 | 2,088 | 123 | 55,548 | 93,559 |
| Fulton | 22,328 | 478 | 31 | 8,532 | 13,287 | 81,940 | 994 | 65 | 29,399 | 51,482 |
| Grant | 22,802 | 296 | 47 | 8,119 | 14,340 | 86,318 | 591 | 116 | 28,643 | 56,968 |
| Hamilton | 21,539 | 481 | 48 | 8,176 | 12,834 | 77,697 | 937 | 115 | 27,288 | 49,357 |
| Hancock | 12,774 | 373 | 14 | 5,007 | 7,380 | 45,787 | 751 | 27 | 16,873 | 28,136 |
| Hendricks | 19,187 | 174 | 37 | 6,815 | 12,161 | 72,388 | 368 | 86 | 23,696 | 48,238 |
| Henry | 22,631 | 365 | 37 | 8,255 | 13,974 | 83,665 | 725 | 84 | 28,106 | 54,750 |
| Howard | 8,030 | 104 | 12 | 2,786 | 5,128 | 29,480 | 246 | 7 | 9,131 | 20,096 |
| Huntington | 23,195 | 621 | 21 | 8,827 | 13,726 | 83,370 | 1,285 | 25 | 29,101 | 52,959 |
| Jasper | 28,446 | 459 | 65 | 10,555 | 17,367 | 104,622 | 934 | 155 | 35,934 | 67,599 |
| Jay | 30,777 | 109 | 73 | 10,530 | 20,065 | 119,725 | 234 | 190 | 38,230 | 81,071 |
| Johnson | 24,206 | 101 | 55 | 8,241 | 15,809 | 93,398 | 203 | 138 | 29,390 | 63,667 |
| Kosciusko | 41,899 | 212 | 96 | 14,490 | 27,101 | 162,276 | 454 | 244 | 52,413 | 109,165 |
| La Grange | 34,854 | 728 | 45 | 13,430 | 20,651 | 124,862 | 1,410 | 100 | 44,087 | 79,265 |
| Lake | 20,362 | 378 | 36 | 7,578 | 12,370 | 74,951 | 742 | 83 | 25,851 | 48,275 |
| La Porte | 44,163 | 619 | 119 | 16,257 | 27,168 | 162,766 | 1,199 | 300 | 55,203 | 106,064 |
| Madison | 15,891 | 177 | 31 | 5,601 | 10,082 | 60,440 | 371 | 71 | 19,838 | 40,160 |
| Marion | 466 | -- | -- | 89 | 377 | 1,675 | -- | -- | 190 | 1,485 |
| Marshall | 32,896 | 608 | 48 | 12,497 | 19,743 | 121,437 | 1,281 | 107 | 43,267 | 76,782 |
| Miami | 32,495 | 278 | 70 | 11,441 | 20,706 | 124,540 | 557 | 178 | 40,900 | 82,905 |
| Montgomery | 25,962 | 780 | 26 | 10,087 | 15,069 | 92,788 | 1,598 | 30 | 33,747 | 57,413 |
| Newton | 22,640 | 436 | 39 | 8,429 | 13,736 | 84,216 | 865 | 90 | 29,384 | 53,877 |
| Noble | 33,525 | 823 | 38 | 12,876 | 19,788 | 120,885 | 1,691 | 60 | 43,149 | 75,985 |
| Porter | 31,638 | 733 | 52 | 11,989 | 18,864 | 112,945 | 1,382 | 121 | 39,047 | 72,395 |
| Pulaski | 29,497 | 655 | 50 | 11,265 | 17,527 | 107,732 | 1,346 | 113 | 38,583 | 67,690 |
| Randolph | 25,180 | 105 | 61 | 8,287 | 16,727 | 97,813 | 218 | 156 | 29,782 | 67,657 |
| Rush | 11,146 | 239 | 10 | 4,059 | 6,838 | 40,171 | 524 | 1 | 13,299 | 26,347 |
| St. Joseph | 22,949 | 509 | 53 | 8,822 | 13,565 | 82,525 | 1,010 | 130 | 29,470 | 51,915 |
| Shelby | 15,851 | 146 | 35 | 5,594 | 10,076 | 60,697 | 293 | 86 | 20,014 | 40,304 |
| Starke | 30,066 | 524 | 62 | 11,120 | 18,360 | 111,362 | 1,062 | 151 | 38,421 | 71,728 |
| Steuben | 32,116 | 803 | 38 | 12,370 | 18,905 | 115,318 | 1,636 | 60 | 41,185 | 72,437 |
| Tippecanoe | 23,654 | 730 | 21 | 9,280 | 13,623 | 84,092 | 1,497 | 23 | 30,902 | 51,670 |
| Tipton | 4,204 | 86 | 4 | 1,487 | 2,627 | 15,186 | 185 | 2 | 4,831 | 10,168 |
| Wabash | 24,763 | 570 | 34 | 9,339 | 14,820 | 88,725 | 1,097 | 69 | 30,550 | 57,009 |
| Warren | 27,035 | 385 | 52 | 9,798 | 16,800 | 101,332 | 798 | 120 | 34,187 | 66,227 |
| Wayne | 33,800 | 698 | 46 | 12,833 | 20,223 | 123,515 | 1,412 | 103 | 43,664 | 78,336 |
| Wells | 17,862 | 453 | 22 | 6,848 | 10,539 | 64,464 | 915 | 37 | 22,972 | 40,540 |
| White | 12,425 | 338 | 14 | 4,884 | 7,189 | 43,779 | 675 | 25 | 15,879 | 27,200 |
| Whitley | 21,524 | 519 | 26 | 8,375 | 12,604 | 77,949 | 1,060 | 56 | 28,446 | 48,387 |
| Total | 1,239,655 | 21,373 | 2,194 | 457,642 | 758,446 | 4,582,053 | 43,370 | 4,951 | 1,568,725 | 2,965,007 |
| All counties | 5,217,854 | 138,303 | 62,959 | 1,698,004 | 3,318,588 | 19,224,207 | 456,909 | 159,604 | 6,000,085 | 12,607,609 |

[1/] International 1/4-inch rule.

Table 53.--Net volume of sawtimber on timberland by species group and tree grade, Indiana, 1986

(In thousand board feet)[1/]

| Species group | All species | Tree grade 1 | 2 | 3 | Tie and timber |
|---|---|---|---|---|---|
| Softwoods | | | | | |
| Jack pine | 18,409 | -- | -- | 18,409 | -- |
| Red pine | 11,919 | -- | -- | 11,919 | -- |
| White pine | 151,387 | 6,862 | 1,475 | 126,306 | 16,744 |
| Shortleaf pine | 87,129 | -- | 7,837 | 79,292 | -- |
| Other yellow pines | 183,341 | -- | 6,658 | 175,749 | 934 |
| Tamarack | 4,208 | -- | -- | 4,208 | -- |
| Baldcypress | 41,635 | -- | 2,098 | 39,537 | -- |
| Eastern redcedar | 113,761 | -- | 2,177 | 110,712 | 872 |
| Other softwoods | 4,724 | -- | -- | 4,724 | -- |
| Total | 616,513 | 6,862 | 20,245 | 570,856 | 18,550 |
| Hardwoods | | | | | |
| Select white oak | 2,875,793 | 457,221 | 781,401 | 1,016,708 | 620,463 |
| Other white oak | 533,134 | 15,331 | 99,798 | 229,002 | 189,003 |
| Select red oak | 1,316,182 | 89,266 | 187,078 | 387,335 | 652,503 |
| Other red oak | 2,163,418 | 110,707 | 260,533 | 569,454 | 1,222,724 |
| Select hickory | 939,742 | 31,885 | 99,488 | 310,018 | 498,351 |
| Other hickory | 1,003,171 | 46,503 | 145,824 | 375,600 | 435,244 |
| Basswood | 253,100 | 35,682 | 71,475 | 114,921 | 31,022 |
| Beech | 608,945 | -- | 4,637 | 48,263 | 556,045 |
| Hard maple | 1,413,239 | 39,780 | 134,478 | 488,919 | 750,062 |
| Soft maple | 809,358 | 5,742 | 68,788 | 203,212 | 531,616 |
| Elm | 329,362 | 20,241 | 70,656 | 156,033 | 82,432 |
| Ash | 1,174,946 | 155,788 | 336,442 | 491,615 | 191,101 |
| Sycamore | 920,914 | 203,738 | 256,111 | 320,924 | 140,141 |
| Cottonwood | 587,853 | 74,377 | 164,863 | 181,615 | 166,998 |
| Willow | 45,497 | 2,635 | 3,946 | 11,781 | 27,135 |
| Hackberry | 171,147 | 11,996 | 53,025 | 74,387 | 31,739 |
| Aspen | 110,582 | -- | 5,409 | 20,879 | 84,294 |
| Birch | 31,507 | 2,827 | 3,504 | 6,849 | 18,327 |
| Sweetgum | 222,029 | 14,347 | 48,417 | 79,708 | 79,557 |
| Tupelo | 155,667 | 11,453 | 31,317 | 42,258 | 70,639 |
| Black cherry | 318,703 | 17,220 | 60,998 | 122,139 | 118,346 |
| Black walnut | 427,405 | 46,038 | 126,987 | 214,268 | 40,112 |
| Butternut | 15,368 | -- | 3,658 | 9,197 | 2,513 |
| Yellow-poplar | 1,840,013 | 191,596 | 216,972 | 391,441 | 1,040,004 |
| Persimmon | 10,011 | -- | 1,909 | 8,102 | -- |
| Sassafras | 162,154 | 5,558 | 30,387 | 90,469 | 35,740 |
| Other hardwoods | 168,454 | 1,083 | 16,323 | 54,608 | 96,440 |
| Total | 18,607,694 | 1,591,014 | 3,284,424 | 6,019,705 | 7,712,551 |
| All species | 19,224,207 | 1,597,876 | 3,304,669 | 6,590,561 | 7,731,101 |

[1/] International 1/4-inch rule.

Table 54.--Net volume of sawtimber on timberland by species group, log grade and diameter class, Indiana, 1986

(In thousand board feet)[1/]

| Species group | All grades | | | | | Log grade 1 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Diameter class (inches at breast height) | | | | | Diameter class (inches at breast height) | | | |
| | Total | 9.0-14.9 | 15.0-18.9 | 19.0-22.9 | 23.0+ | Total | 9.0-14.9 | 15.0-18.9 | 19.0-22.9 | 23.0+ |
| Softwoods | | | | | | | | | | |
| Jack pine | 18,409 | 14,949 | 2,593 | 867 | -- | -- | -- | -- | -- | -- |
| Red pine | 11,919 | 11,919 | -- | -- | -- | -- | -- | -- | -- | -- |
| White pine | 151,387 | 132,745 | 18,642 | -- | -- | 3,601 | -- | 3,601 | -- | -- |
| Shortleaf pine | 87,129 | 85,226 | 1,903 | -- | -- | -- | -- | -- | -- | -- |
| Other yellow pines | 183,341 | 159,705 | 17,641 | 3,881 | 2,114 | -- | -- | -- | -- | -- |
| Tamarack | 4,208 | 4,208 | -- | -- | -- | -- | -- | -- | -- | -- |
| Baldcypress | 41,635 | 29,865 | 11,770 | -- | -- | -- | -- | -- | -- | -- |
| Eastern redcedar | 113,761 | 96,766 | 15,637 | -- | 1,358 | -- | -- | -- | -- | -- |
| Other softwoods | 4,724 | 4,724 | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 616,513 | 540,107 | 68,186 | 4,748 | 3,472 | 3,601 | -- | 3,601 | -- | -- |
| Hardwoods | | | | | | | | | | |
| Select white oak | 2,875,793 | 776,816 | 975,091 | 672,537 | 451,349 | 240,312 | 2,350 | 67,495 | 103,222 | 67,245 |
| Other white oak | 533,134 | 212,470 | 231,911 | 73,307 | 15,446 | 7,510 | -- | 3,281 | 4,229 | -- |
| Select red oak | 1,316,182 | 305,164 | 390,310 | 316,129 | 304,579 | 50,395 | -- | 8,686 | 10,713 | 30,996 |
| Other red oak | 2,163,418 | 566,607 | 758,495 | 475,986 | 362,330 | 60,804 | -- | 12,743 | 22,466 | 25,595 |
| Select hickory | 939,742 | 458,647 | 337,960 | 110,630 | 32,505 | 19,540 | 1,515 | 6,832 | 11,193 | -- |
| Other hickory | 1,003,171 | 508,278 | 321,868 | 125,868 | 47,157 | 27,000 | 3,582 | 8,827 | 12,982 | 1,609 |
| Basswood | 253,100 | 76,898 | 95,510 | 51,772 | 28,920 | 19,103 | 320 | 4,491 | 8,043 | 6,249 |
| Beech | 608,945 | 143,648 | 176,936 | 167,305 | 121,056 | -- | -- | -- | -- | -- |
| Hard maple | 1,413,239 | 602,145 | 445,114 | 253,086 | 112,894 | 20,092 | 406 | 5,849 | 8,931 | 4,906 |
| Soft maple | 809,358 | 279,758 | 243,017 | 131,146 | 155,437 | 2,925 | -- | -- | 1,740 | 1,185 |
| Elm | 329,362 | 192,608 | 93,155 | 25,051 | 18,548 | 10,179 | -- | 5,827 | 2,323 | 2,029 |
| Ash | 1,174,946 | 503,921 | 391,382 | 168,091 | 111,552 | 78,085 | 3,823 | 34,048 | 22,925 | 17,289 |
| Sycamore | 920,914 | 232,049 | 246,086 | 211,042 | 231,737 | 110,575 | 3,073 | 23,805 | 33,274 | 50,423 |
| Cottonwood | 587,853 | 120,513 | 152,693 | 88,891 | 225,756 | 45,227 | -- | 2,448 | 13,034 | 29,745 |
| Willow | 45,497 | 14,148 | 13,212 | 16,869 | 1,268 | 1,284 | -- | 581 | 703 | -- |
| Hackberry | 171,147 | 76,042 | 55,051 | 30,442 | 9,612 | 6,355 | -- | 1,413 | 4,272 | 670 |
| Aspen | 110,582 | 60,063 | 44,384 | 4,444 | 1,691 | -- | -- | -- | -- | -- |
| Birch | 31,507 | 14,331 | 14,795 | 934 | 1,447 | 1,189 | -- | 1,189 | -- | -- |
| Sweetgum | 222,029 | 114,644 | 59,175 | 31,612 | 16,598 | 7,240 | -- | 3,772 | 3,468 | -- |
| Tupelo | 155,667 | 65,750 | 43,855 | 27,631 | 18,431 | 5,779 | -- | 2,467 | 1,825 | 1,487 |
| Black cherry | 318,703 | 142,640 | 103,500 | 62,015 | 10,548 | 8,736 | -- | 2,436 | 5,259 | 1,041 |
| Black walnut | 427,405 | 214,749 | 164,970 | 38,174 | 9,512 | 22,833 | 2,399 | 14,263 | 5,084 | 1,087 |
| Butternut | 15,368 | 6,341 | 7,958 | 1,069 | -- | -- | -- | -- | -- | -- |
| Yellow-poplar | 1,840,013 | 495,927 | 687,210 | 415,337 | 241,539 | 96,916 | 401 | 24,500 | 34,604 | 37,411 |
| Persimmon | 10,011 | 9,192 | 819 | -- | -- | -- | -- | -- | -- | -- |
| Sassafras | 162,154 | 96,942 | 55,851 | 5,793 | 3,568 | 2,741 | -- | 1,433 | 604 | 704 |
| Other hardwoods | 168,454 | 94,531 | 45,930 | 15,719 | 12,274 | 711 | -- | -- | -- | 711 |
| Total | 18,607,694 | 6,384,822 | 6,156,238 | 3,520,880 | 2,545,754 | 845,531 | 17,869 | 236,386 | 310,894 | 280,382 |
| All species | 19,224,207 | 6,924,929 | 6,224,424 | 3,525,628 | 2,549,226 | 849,132 | 17,869 | 239,987 | 310,894 | 280,382 |

(Table 54 continued on the next page)

[1/] International 1/4-inch rule.

(Table 54 continued)

| Species group | Log grade 2 | | | | | Log grades 3 and 4 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Diameter class (inches at breast height) | | | | | Diameter class (inches at breast height) | | | |
| | Total | 9.0-14.9 | 15.0-18.9 | 19.0-22.9 | 23.0+ | Total | 9.0-14.9 | 15.0-18.9 | 19.0-22.9 | 23.0+ |
| Softwoods | | | | | | | | | | |
| Jack pine | 222 | 222 | -- | -- | -- | 18,187 | 14,727 | 2,593 | 867 | -- |
| Red pine | 177 | 177 | -- | -- | -- | 11,742 | 11,742 | -- | -- | -- |
| White pine | 3,784 | 2,545 | 1,239 | -- | -- | 144,002 | 130,200 | 13,802 | -- | -- |
| Shortleaf pine | 4,277 | 4,277 | -- | -- | -- | 82,852 | 80,949 | 1,903 | -- | -- |
| Other yellow pines | 5,092 | 4,603 | 489 | -- | -- | 178,249 | 155,102 | 17,152 | 3,881 | 2,114 |
| Tamarack | 62 | 62 | -- | -- | -- | 4,146 | 4,146 | -- | -- | -- |
| Baldcypress | 1,656 | 446 | 1,210 | -- | -- | 39,979 | 29,419 | 10,560 | -- | -- |
| Eastern redcedar | 2,876 | 1,756 | -- | -- | 1,120 | 110,885 | 95,010 | 15,637 | -- | 238 |
| Other softwoods | 70 | 70 | -- | -- | -- | 4,654 | 4,654 | -- | -- | -- |
| Total | 18,216 | 14,158 | 2,938 | -- | 1,120 | 594,696 | 525,949 | 61,647 | 4,748 | 2,352 |
| Hardwoods | | | | | | | | | | |
| Select white oak | 636,627 | 132,713 | 249,733 | 155,289 | 98,892 | 1,998,854 | 641,753 | 657,863 | 414,026 | 285,212 |
| Other white oak | 96,965 | 22,086 | 53,913 | 17,946 | 3,020 | 428,659 | 190,384 | 174,717 | 51,132 | 12,426 |
| Select red oak | 143,160 | 16,632 | 30,393 | 42,401 | 53,734 | 1,122,627 | 288,532 | 351,231 | 263,015 | 219,849 |
| Other red oak | 200,379 | 26,274 | 55,821 | 63,818 | 54,466 | 1,902,235 | 540,333 | 689,931 | 389,702 | 282,269 |
| Select hickory | 53,707 | 14,298 | 28,291 | 5,922 | 5,196 | 866,495 | 442,834 | 302,837 | 93,515 | 27,309 |
| Other hickory | 83,906 | 17,216 | 39,390 | 22,529 | 4,771 | 892,265 | 487,480 | 273,651 | 90,357 | 40,777 |
| Basswood | 48,106 | 8,511 | 22,912 | 13,126 | 3,557 | 185,891 | 68,067 | 68,107 | 30,603 | 19,114 |
| Beech | 18,114 | -- | 17,396 | 718 | -- | 590,831 | 143,648 | 159,540 | 166,587 | 121,056 |
| Hard maple | 122,619 | 21,884 | 33,443 | 55,137 | 12,155 | 1,270,528 | 579,855 | 405,822 | 189,018 | 95,833 |
| Soft maple | 64,858 | 8,443 | 7,045 | 28,018 | 21,352 | 741,575 | 271,315 | 235,972 | 101,388 | 132,900 |
| Elm | 45,698 | 13,862 | 18,399 | 8,469 | 4,968 | 273,485 | 178,746 | 68,929 | 14,259 | 11,551 |
| Ash | 229,774 | 61,069 | 80,085 | 53,805 | 34,815 | 867,087 | 439,029 | 277,249 | 91,361 | 59,448 |
| Sycamore | 182,824 | 25,122 | 67,988 | 35,936 | 53,778 | 627,515 | 203,854 | 154,293 | 141,832 | 127,536 |
| Cottonwood | 105,816 | 15,726 | 36,377 | 13,892 | 39,821 | 436,810 | 104,787 | 113,868 | 61,965 | 156,190 |
| Willow | 3,806 | 562 | 1,480 | 1,764 | -- | 40,407 | 13,586 | 11,151 | 14,402 | 1,268 |
| Hackberry | 31,825 | 5,871 | 14,741 | 8,719 | 2,494 | 132,967 | 70,171 | 38,897 | 17,451 | 6,448 |
| Aspen | 6,452 | 911 | 4,933 | -- | 608 | 104,130 | 59,152 | 39,451 | 4,444 | 1,083 |
| Birch | 3,427 | 1,160 | 2,267 | -- | -- | 26,891 | 13,171 | 11,339 | 934 | 1,447 |
| Sweetgum | 33,297 | 7,606 | 10,461 | 10,515 | 4,715 | 181,492 | 107,038 | 44,942 | 17,629 | 11,883 |
| Tupelo | 23,601 | 2,655 | 6,263 | 9,427 | 5,256 | 126,287 | 63,095 | 35,125 | 16,379 | 11,688 |
| Black cherry | 42,405 | 9,697 | 9,261 | 21,700 | 1,747 | 267,562 | 132,943 | 91,803 | 35,056 | 7,760 |
| Black walnut | 78,350 | 26,498 | 40,560 | 10,743 | 549 | 326,222 | 185,852 | 110,147 | 22,347 | 7,876 |
| Butternut | 2,020 | 126 | 1,290 | 604 | -- | 13,348 | 6,215 | 6,668 | 465 | -- |
| Yellow-poplar | 218,773 | 23,188 | 51,594 | 99,848 | 44,143 | 1,524,324 | 472,338 | 611,116 | 280,885 | 159,985 |
| Persimmon | 881 | 481 | 400 | -- | -- | 9,130 | 8,711 | 419 | -- | -- |
| Sassafras | 19,668 | 7,006 | 9,763 | 1,295 | 1,604 | 139,745 | 89,936 | 44,655 | 3,894 | 1,260 |
| Other hardwoods | 11,873 | 3,621 | 5,937 | 1,509 | 806 | 155,870 | 90,910 | 39,993 | 14,210 | 10,757 |
| Total | 2,508,931 | 473,218 | 900,136 | 683,130 | 452,447 | 15,253,232 | 5,893,735 | 5,019,716 | 2,526,856 | 1,812,925 |
| All species | 2,527,147 | 487,376 | 903,074 | 683,130 | 453,567 | 15,847,928 | 6,419,684 | 5,081,363 | 2,531,604 | 1,815,277 |

Table 55.--Net volume of short-log trees on timberland by species group and diameter class, Indiana, 1986

(In thousand cubic feet)

| Species group | All classes | Diameter class (inches at breast height) 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-22.9 | 23.0-28.9 | 29.0-38.9 | 39.0+ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Softwoods | | | | | | | | | | | |
| Jack pine | 199 | 199 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Red pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| White pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | 488 | 130 | 358 | -- | -- | -- | -- | -- | -- | -- | -- |
| Other yellow pines | 236 | 104 | -- | -- | -- | -- | -- | 132 | -- | -- | -- |
| Tamarack | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Baldcypress | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Eastern redcedar | 885 | 465 | 130 | 140 | -- | 150 | -- | -- | -- | -- | -- |
| Other softwoods | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 1,808 | 898 | 488 | 140 | -- | 150 | -- | 132 | -- | -- | -- |
| Hardwoods | | | | | | | | | | | |
| Select white oak | 21,026 | -- | 2,284 | 2,290 | 1,501 | 2,443 | 1,279 | 2,397 | 4,289 | 3,177 | 1,366 |
| Other white oak | 1,875 | -- | 359 | 103 | 829 | 128 | 170 | -- | 286 | -- | -- |
| Select red oak | 9,521 | -- | -- | 504 | 633 | 1,096 | 1,443 | 620 | 1,731 | 2,058 | 1,436 |
| Other red oak | 11,533 | -- | 1,113 | 170 | 1,161 | 1,601 | 2,039 | 1,397 | 1,400 | 1,488 | 1,164 |
| Select hickory | 6,442 | -- | 631 | 1,651 | 1,341 | 1,268 | 828 | 395 | 328 | -- | -- |
| Other hickory | 5,889 | -- | 1,438 | 1,053 | 906 | 335 | 291 | 731 | 1,135 | -- | -- |
| Basswood | 2,287 | -- | 256 | 122 | 155 | 616 | 134 | -- | 749 | 255 | -- |
| Beech | 8,899 | -- | 138 | 1,512 | 879 | 1,781 | 1,548 | 748 | 1,183 | 951 | 159 |
| Hard maple | 19,052 | -- | 3,115 | 3,260 | 3,028 | 1,439 | 1,600 | 2,013 | 3,570 | 1,027 | -- |
| Soft maple | 15,028 | -- | 2,654 | 1,258 | 1,493 | 2,208 | 1,696 | 1,150 | 2,719 | 1,230 | 620 |
| Elm | 4,739 | -- | 1,419 | 1,322 | 539 | 648 | 242 | 214 | 241 | 114 | -- |
| Ash | 14,414 | -- | 3,442 | 1,974 | 2,207 | 2,244 | 1,475 | 888 | 1,063 | 814 | 307 |
| Sycamore | 4,151 | -- | 137 | 1,214 | 805 | 134 | 798 | -- | 511 | 472 | 80 |
| Cottonwood | 4,127 | -- | 286 | 574 | -- | -- | 1,010 | -- | 528 | 1,373 | 356 |
| Willow | 1,589 | -- | 238 | 230 | 501 | -- | -- | -- | 393 | 227 | -- |
| Hackberry | 2,633 | -- | 444 | 478 | 373 | 128 | 154 | 132 | 426 | -- | 498 |
| Aspen | 109 | -- | 109 | -- | -- | -- | -- | -- | -- | -- | -- |
| Birch | 170 | -- | -- | -- | -- | -- | -- | -- | 170 | -- | -- |
| Sweetgum | 586 | -- | -- | -- | 147 | 232 | -- | -- | 129 | 78 | -- |
| Tupelo | 1,102 | -- | 348 | 316 | 339 | -- | -- | -- | 99 | -- | -- |
| Black cherry | 6,192 | -- | 2,229 | 798 | 752 | 837 | -- | 758 | 518 | 300 | -- |
| Black walnut | 6,385 | -- | 1,968 | 1,609 | 689 | 579 | 276 | 399 | 587 | 158 | 120 |
| Butternut | 298 | -- | 298 | -- | -- | -- | -- | -- | -- | -- | -- |
| Yellow-poplar | 3,874 | -- | 1,030 | 693 | 124 | 817 | 46 | 56 | 698 | 260 | 150 |
| Persimmon | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sassafras | 3,101 | -- | 565 | 313 | 592 | 589 | 297 | -- | 513 | 232 | -- |
| Other hardwoods | 5,438 | -- | 1,500 | 1,657 | 874 | 624 | 596 | -- | 187 | -- | -- |
| Total | 160,460 | -- | 26,001 | 23,101 | 19,868 | 19,747 | 15,922 | 11,898 | 23,453 | 14,214 | 6,256 |
| All species | 162,268 | 898 | 26,489 | 23,241 | 19,868 | 19,897 | 15,922 | 12,030 | 23,453 | 14,214 | 6,256 |

Table 56.--Net volume of short-log trees on timberland by species group and diameter class, Indiana, 1986

(In thousand board feet)[1/]

| Species group | All classes | Diameter class (inches at breast height) 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-22.9 | 23.0-28.9 | 29.0-38.9 | 39.0+ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Softwoods | | | | | | | | | | | |
| Jack pine | 1,008 | 1,008 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Red pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| White pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | 2,254 | 654 | 1,600 | -- | -- | -- | -- | -- | -- | -- | -- |
| Other yellow pines | 887 | 525 | -- | -- | -- | -- | -- | 362 | -- | -- | -- |
| Tamarack | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Baldcypress | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Eastern redcedar | 3,990 | 2,353 | 581 | 557 | -- | 499 | -- | -- | -- | -- | -- |
| Other softwoods | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 8,139 | 4,540 | 2,181 | 557 | -- | 499 | -- | 362 | -- | -- | -- |
| Hardwoods | | | | | | | | | | | |
| Select white oak | 63,145 | -- | 8,474 | 7,991 | 4,968 | 7,567 | 3,924 | 6,814 | 11,365 | 8,419 | 3,623 |
| Other white oak | 6,111 | -- | 1,332 | 358 | 2,745 | 397 | 522 | -- | 757 | -- | -- |
| Select red oak | 27,278 | -- | -- | 1,760 | 2,095 | 3,391 | 4,423 | 1,763 | 4,583 | 5,454 | 3,809 |
| Other red oak | 34,482 | -- | 4,132 | 594 | 3,847 | 4,960 | 6,248 | 3,968 | 3,704 | 3,945 | 3,084 |
| Select hickory | 21,000 | -- | 2,341 | 5,766 | 4,442 | 3,925 | 2,534 | 1,123 | 869 | -- | -- |
| Other hickory | 19,030 | -- | 5,342 | 3,679 | 2,997 | 1,037 | 893 | 2,076 | 3,006 | -- | -- |
| Basswood | 6,873 | -- | 949 | 428 | 515 | 1,909 | 411 | -- | 1,986 | 675 | -- |
| Beech | 27,168 | -- | 512 | 5,281 | 2,910 | 5,521 | 4,747 | 2,125 | 3,133 | 2,519 | 420 |
| Hard maple | 60,238 | -- | 11,568 | 11,385 | 10,019 | 4,456 | 4,905 | 5,721 | 9,460 | 2,724 | -- |
| Soft maple | 46,581 | -- | 9,847 | 4,390 | 4,944 | 6,836 | 5,198 | 3,268 | 7,200 | 3,260 | 1,638 |
| Elm | 15,954 | -- | 5,264 | 4,614 | 1,785 | 2,005 | 740 | 607 | 639 | 300 | -- |
| Ash | 46,751 | -- | 12,776 | 6,897 | 7,301 | 6,946 | 4,523 | 2,524 | 2,817 | 2,157 | 810 |
| Sycamore | 13,092 | -- | 508 | 4,240 | 2,666 | 415 | 2,446 | -- | 1,354 | 1,252 | 211 |
| Cottonwood | 12,138 | -- | 1,061 | 2,003 | -- | -- | 3,096 | -- | 1,399 | 3,637 | 942 |
| Willow | 4,985 | -- | 881 | 803 | 1,658 | -- | -- | -- | 1,042 | 601 | -- |
| Hackberry | 8,244 | -- | 1,651 | 1,667 | 1,235 | 396 | 472 | 376 | 1,130 | -- | 1,317 |
| Aspen | 405 | -- | 405 | -- | -- | -- | -- | -- | -- | -- | -- |
| Birch | 451 | -- | -- | -- | -- | -- | -- | -- | 451 | -- | -- |
| Sweetgum | 1,755 | -- | -- | -- | 488 | 720 | -- | -- | 341 | 206 | -- |
| Tupelo | 3,776 | -- | 1,291 | 1,102 | 1,121 | -- | -- | -- | 262 | -- | -- |
| Black cherry | 20,465 | -- | 8,275 | 2,786 | 2,490 | 2,593 | -- | 2,155 | 1,375 | 791 | -- |
| Black walnut | 21,262 | -- | 7,302 | 5,623 | 2,280 | 1,790 | 845 | 1,134 | 1,553 | 417 | 318 |
| Butternut | 1,107 | -- | 1,107 | -- | -- | -- | -- | -- | -- | -- | -- |
| Yellow-poplar | 12,416 | -- | 3,823 | 2,419 | 409 | 2,532 | 140 | 159 | 1,850 | 688 | 396 |
| Persimmon | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sassafras | 9,855 | -- | 2,095 | 1,093 | 1,960 | 1,823 | 909 | -- | 1,360 | 615 | -- |
| Other hardwoods | 18,493 | -- | 5,565 | 5,784 | 2,891 | 1,932 | 1,825 | -- | 496 | -- | -- |
| Total | 503,055 | -- | 96,501 | 80,663 | 65,766 | 61,151 | 48,801 | 33,813 | 62,132 | 37,660 | 16,568 |
| All species | 511,194 | 4,540 | 98,682 | 81,220 | 65,766 | 61,650 | 48,801 | 34,175 | 62,132 | 37,660 | 16,568 |

[1/] International 1/4-inch rule.

Table 57.--Net annual growth of growing stock and sawtimber on timberland by softwoods and hardwoods and Forest Survey Unit, Indiana, 1966 and 1985

| Species group | Growing stock | | Sawtimber | |
|---|---|---|---|---|
| | 1966[1] | 1985 | 1966[1] | 1985 |
| | Thousand cubic feet | | Thousand board feet[2] | |
| All Units | | | | |
| Softwoods | 4,446 | 6,638 | 11,613 | 39,303 |
| Hardwoods | 99,099 | 146,997 | 258,332 | 686,641 |
| All species | 103,545 | 153,635 | 269,945 | 725,944 |
| Lower Wabash Unit | | | | |
| Softwoods | 637 | 1,108 | 183 | 5,599 |
| Hardwoods | 17,573 | 31,034 | 40,518 | 148,202 |
| All species | 18,210 | 32,142 | 40,701 | 153,801 |
| Knobs Unit | | | | |
| Softwoods | 2,929 | 4,013 | 6,305 | 24,785 |
| Hardwoods | 39,758 | 64,933 | 94,041 | 321,337 |
| All species | 42,687 | 68,946 | 100,346 | 346,122 |
| Upland Flats | | | | |
| Softwoods | 10 | 856 | 77 | 713 |
| Hardwoods | 7,036 | 15,911 | 15,763 | 61,647 |
| All species | 7,046 | 16,767 | 15,840 | 62,360 |
| Northern Unit | | | | |
| Softwoods | 870 | 661 | 5,048 | 8,206 |
| Hardwoods | 34,732 | 35,119 | 108,010 | 155,455 |
| All species | 35,602 | 35,780 | 113,058 | 163,661 |

[1] Figures have been adjusted from those published after the 1967 survey to conform to 1985 volumes because of changes in survey procedures.

[2] International 1/4-inch rule.

Table 58.--Net annual growth of growing stock on timberland by species group and ownership class, Indiana, 1985

(In thousand cubic feet)

| Species group | All owners | Ownership class | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | National forest | Misc. federal | State | County & municipal | Forest industry | Farmer | Misc. priv.-corp. | Misc. priv.-indiv. |
| Softwoods | | | | | | | | | |
| Jack pine | 135 | -- | -- | 24 | -- | -- | 19 | 8 | 84 |
| Red pine | 198 | -- | -- | 12 | -- | -- | 87 | 74 | 25 |
| White pine | 1,600 | 137 | -- | 251 | -- | -- | 412 | 435 | 365 |
| Shortleaf pine | -85 | -383 | 5 | -- | -- | -- | 88 | 133 | 72 |
| Other yellow pines | 1,990 | -5 | -- | 138 | -- | -- | 601 | 415 | 841 |
| Tamarack | 2 | -- | -- | 2 | -- | -- | -- | -- | -- |
| Baldcypress | 138 | -- | -- | -- | -- | -- | -- | 58 | 80 |
| Eastern redcedar | 2,133 | 13 | 11 | -7 | 8 | -- | 1,127 | 4 | 977 |
| Other softwoods | 527 | -- | -- | 145 | -- | -- | 382 | -- | -- |
| Total | 6,638 | -238 | 16 | 565 | 8 | -- | 2,716 | 1,127 | 2,444 |
| Hardwoods | | | | | | | | | |
| Select white oak | 15,350 | 915 | 886 | 1,365 | 102 | 121 | 5,232 | 931 | 5,798 |
| Other white oak | 2,425 | 262 | 45 | 484 | 42 | 22 | 309 | 147 | 1,114 |
| Select red oak | 8,276 | 200 | 272 | 334 | 39 | 55 | 3,242 | 772 | 3,362 |
| Other red oak | 14,388 | 533 | 696 | 966 | 50 | 111 | 5,216 | 1,091 | 5,725 |
| Select hickory | 5,583 | 43 | 217 | 115 | 17 | 26 | 2,117 | 392 | 2,656 |
| Other hickory | 6,402 | 227 | 287 | 216 | 17 | 36 | 2,680 | 311 | 2,628 |
| Basswood | 1,693 | 4 | 90 | 133 | -42 | -- | 761 | 133 | 614 |
| Beech | 1,504 | 34 | -2 | 63 | -- | 18 | 762 | 123 | 506 |
| Hard maple | 13,833 | 432 | 618 | 427 | 18 | 50 | 4,850 | 1,306 | 6,132 |
| Soft maple | 12,287 | 94 | 590 | 683 | 108 | -- | 5,753 | 1,355 | 3,704 |
| Elm | 4,654 | 14 | 4 | -5 | 94 | 83 | 2,244 | 560 | 1,660 |
| Ash | 10,079 | 301 | 225 | 230 | 82 | -- | 4,473 | 1,102 | 3,666 |
| Sycamore | 6,232 | 380 | 242 | 285 | 13 | -- | 2,556 | 654 | 2,102 |
| Cottonwood | 3,789 | -- | 14 | 89 | 191 | -- | 2,493 | 603 | 399 |
| Willow | 204 | -- | -15 | -- | -22 | -- | 47 | 29 | 165 |
| Hackberry | 2,319 | -- | 21 | 29 | 2 | -- | 1,262 | 142 | 863 |
| Aspen | 728 | 114 | 128 | 6 | -- | -- | 109 | 166 | 205 |
| Birch | 450 | 1 | 9 | 8 | -- | -- | 136 | 40 | 256 |
| Sweetgum | 3,203 | 12 | 39 | 110 | -- | -- | 1,163 | 383 | 1,496 |
| Tupelo | 1,134 | 46 | 34 | 59 | -- | -34 | 461 | 72 | 496 |
| Black cherry | 2,961 | 17 | 49 | 72 | 85 | -11 | 1,350 | 154 | 1,245 |
| Black walnut | 3,959 | -36 | 113 | 66 | 29 | 4 | 1,935 | 397 | 1,451 |
| Butternut | 3 | -- | -- | -- | 5 | -- | -10 | 22 | -14 |
| Yellow-poplar | 20,032 | 383 | 1,197 | 704 | 91 | 13 | 7,201 | 1,791 | 8,652 |
| Persimmon | 423 | 1 | 6 | 3 | -- | -- | 175 | 36 | 202 |
| Sassafras | 3,295 | 458 | 17 | 120 | -- | 44 | 705 | 130 | 1,821 |
| Other hardwoods | 1,791 | 23 | 91 | -21 | 18 | -- | 663 | 251 | 766 |
| Total | 146,997 | 4,458 | 5,873 | 6,541 | 939 | 538 | 57,885 | 13,093 | 57,670 |
| All species | 153,635 | 4,220 | 5,889 | 7,106 | 947 | 538 | 60,601 | 14,220 | 60,114 |

Table 59.--Net annual growth of sawtimber on timberland by species group and ownership class, Indiana, 1985

(In thousand board feet)[1/]

| Species group | All owners | Ownership class | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | National forest | Misc. federal | State | County & municipal | Forest industry | Farmer | Misc. priv.-corp. | Misc. priv.-indiv. |
| Softwoods | | | | | | | | | |
| Jack pine | 479 | -- | -- | 253 | -- | -- | 5 | -- | 221 |
| Red pine | 4,432 | -- | -- | 45 | -- | -- | 3,424 | 891 | 72 |
| White pine | 14,553 | 6,264 | -- | 1,010 | -- | -- | 3,131 | 2,470 | 1,678 |
| Shortleaf pine | 2,520 | 944 | 25 | -- | -- | -- | 223 | 654 | 674 |
| Other yellow pines | 6,884 | -- | -- | 698 | -- | -- | 1,792 | 744 | 3,650 |
| Tamarack | -131 | -- | -- | -131 | -- | -- | -- | -- | -- |
| Baldcypress | 744 | -- | -- | -- | -- | -- | -- | 311 | 433 |
| Eastern redcedar | 6,237 | 80 | 16 | -45 | -- | -- | 1,865 | 26 | 4,295 |
| Other softwoods | 3,585 | -- | -- | -- | -- | -- | 3,585 | -- | -- |
| Total | 39,303 | 7,288 | 41 | 1,830 | -- | -- | 14,025 | 5,096 | 11,023 |
| Hardwoods | | | | | | | | | |
| Select white oak | 79,020 | 6,335 | 4,524 | 5,916 | 726 | 949 | 25,313 | 9,527 | 25,730 |
| Other white oak | 13,109 | 1,774 | 237 | 2,272 | 177 | 57 | 1,878 | 601 | 6,113 |
| Select red oak | 50,361 | 1,511 | 1,958 | 1,720 | 189 | 412 | 24,294 | 3,890 | 16,387 |
| Other red oak | 77,947 | 3,468 | 3,114 | 4,259 | 208 | 1,044 | 28,585 | 5,348 | 31,921 |
| Select hickory | 28,196 | 366 | 1,340 | 603 | 82 | 90 | 9,380 | 1,441 | 14,894 |
| Other hickory | 35,440 | 2,034 | 2,069 | 775 | 16 | 208 | 12,870 | 1,666 | 15,802 |
| Basswood | 9,019 | -- | 1,756 | 719 | 36 | -- | 2,737 | 857 | 2,914 |
| Beech | 5,676 | 23 | -6 | 311 | -- | 53 | 2,968 | 601 | 1,726 |
| Hard maple | 59,429 | 1,354 | 1,915 | 385 | 91 | 175 | 19,788 | 4,091 | 31,630 |
| Soft maple | 36,743 | 143 | 1,591 | 1,228 | 963 | -- | 18,839 | 2,438 | 11,541 |
| Elm | 6,401 | -16 | -151 | 273 | -13 | -118 | 3,665 | 948 | 1,813 |
| Ash | 49,560 | 1,296 | 502 | 1,454 | 592 | -- | 20,818 | 9,015 | 15,883 |
| Sycamore | 31,449 | 584 | 1,450 | 558 | 43 | -- | 12,476 | 5,964 | 10,374 |
| Cottonwood | 19,464 | -- | 8 | 491 | 1,181 | -- | 11,335 | 3,450 | 2,999 |
| Willow | 378 | -- | -64 | -- | -- | -- | -574 | -40 | 1,056 |
| Hackberry | 10,351 | -- | 110 | 320 | 11 | -- | 4,546 | 1,000 | 4,364 |
| Aspen | 5,517 | 262 | 390 | 16 | -- | -- | 690 | 3,439 | 720 |
| Birch | 1,262 | 9 | 22 | 48 | -- | -- | 403 | -- | 780 |
| Sweetgum | 11,577 | 105 | 203 | 361 | -- | -- | 5,600 | 210 | 5,098 |
| Tupelo | 5,201 | 96 | 16 | 235 | -- | -188 | 1,426 | 541 | 3,075 |
| Black cherry | 16,699 | 94 | 148 | 203 | 69 | -58 | 10,391 | 896 | 4,956 |
| Black walnut | 19,928 | 44 | 774 | 474 | 132 | 6 | 10,086 | 2,083 | 6,329 |
| Butternut | 46 | -- | -- | -- | 28 | -- | -84 | 145 | -43 |
| Yellow-poplar | 90,476 | 1,509 | 4,560 | 2,921 | 82 | 38 | 30,400 | 7,811 | 43,155 |
| Persimmon | 2,198 | -- | -- | -- | -- | -- | 710 | 180 | 1,308 |
| Sassafras | 7,878 | 36 | 312 | -24 | -- | 104 | 3,011 | 394 | 4,045 |
| Other hardwoods | 13,316 | 114 | 395 | -25 | -- | -- | 7,384 | 398 | 5,050 |
| Total | 686,641 | 21,141 | 27,173 | 25,493 | 4,613 | 2,772 | 268,935 | 66,894 | 269,620 |
| All species | 725,944 | 28,429 | 27,214 | 27,323 | 4,613 | 2,772 | 282,960 | 71,990 | 280,643 |

[1/] International 1/4-inch rule.

Table 60.--Net annual growth of growing stock on timberland by species group and forest type, Indiana, 1985

(In thousand cubic feet)

| Species group | All types | Forest type | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jack-red-white pine | Short-leaf pine | Scotch-Virginia pine | Oak-pine | Oak-hickory | Chestnut-scarlet oak | Sassafras-persimmon | Oak-gum | Lowland oak | Elm-ash-soft maple | Cotton-wood | Maple-beech | Cherry-ash-yellow-poplar | Non-stocked |
| Softwoods | | | | | | | | | | | | | | | |
| Jack pine | 135 | 100 | -- | -- | 3 | 6 | -- | -- | -- | -- | 2 | 5 | -- | 19 | -- |
| Red pine | 198 | 165 | -- | -- | -- | 19 | -- | -- | 8 | -- | 6 | -- | -- | -- | -- |
| White pine | 1,600 | 1,141 | -- | 110 | 144 | 114 | -- | -- | -- | -- | 46 | -- | -- | 45 | -- |
| Shortleaf pine | -85 | -38 | -70 | 58 | 48 | -51 | -- | -- | -- | -- | 15 | -- | -- | -47 | -- |
| Other yellow pines | 1,990 | 83 | -59 | 1,387 | 278 | 87 | -- | 10 | 11 | -- | 102 | 69 | 14 | 8 | -- |
| Tamarack | 2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2 | -- | -- | -- | -- |
| Baldcypress | 138 | -- | -- | -- | -- | -- | -- | -- | 39 | -- | 99 | -- | -- | -- | -- |
| Eastern redcedar | 2,133 | -33 | 2 | 396 | 753 | 467 | -- | -- | 7 | -- | 138 | -- | 154 | 249 | -- |
| Other softwoods | 527 | -- | -- | 329 | -- | -- | -- | -- | 12 | -- | -- | -- | 133 | 53 | -- |
| Total | 6,638 | 1,418 | -127 | 2,280 | 1,226 | 642 | -- | 10 | 77 | -- | 410 | 74 | 301 | 327 | -- |
| Hardwoods | | | | | | | | | | | | | | | |
| Select white oak | 15,350 | 94 | -- | 30 | 90 | 10,659 | 181 | 14 | 57 | 182 | 895 | -- | 2,096 | 1,048 | 4 |
| Other white oak | 2,425 | -- | 4 | -- | 44 | 1,245 | 864 | 5 | 12 | -19 | -8 | -- | 220 | 58 | -- |
| Select red oak | 8,276 | 17 | -- | 3 | 96 | 4,351 | 9 | -- | 18 | 18 | 435 | -- | 2,228 | 1,101 | -- |
| Other red oak | 14,388 | 10 | 13 | 88 | 269 | 9,792 | 198 | 21 | 165 | 413 | 1,210 | 7 | 1,262 | 934 | 6 |
| Select hickory | 5,583 | 34 | 1 | 6 | 49 | 3,358 | -- | -- | 81 | 31 | 470 | -- | 949 | 604 | -- |
| Other hickory | 6,402 | 11 | 2 | -- | 244 | 3,671 | -38 | -- | -17 | 26 | 299 | -- | 1,382 | 822 | -- |
| Basswood | 1,693 | -- | -- | -- | 37 | 267 | 4 | -- | -- | 9 | 184 | -- | 946 | 246 | -- |
| Beech | 1,504 | -- | 2 | -- | -- | 107 | -- | -- | 109 | -- | 22 | -- | 1,189 | 75 | -- |
| Hard maple | 13,833 | 5 | 4 | 13 | 101 | 2,804 | 66 | -3 | 9 | -- | 953 | -- | 8,141 | 1,740 | -- |
| Soft maple | 12,287 | 139 | 21 | 28 | 48 | 1,381 | 149 | -- | 433 | 97 | 6,788 | 127 | 2,042 | 1,076 | -42 |
| Elm | 4,654 | 34 | -- | 2 | 30 | 427 | -- | -10 | 8 | 56 | 1,577 | -- | 1,112 | 1,403 | 15 |
| Ash | 10,079 | 48 | 19 | 25 | 150 | 1,743 | -- | -10 | 99 | 69 | 2,761 | -- | 1,795 | 3,367 | 13 |
| Sycamore | 6,232 | 77 | 17 | 119 | 46 | 822 | -- | -- | 128 | 7 | 2,837 | 41 | 1,020 | 1,082 | 36 |
| Cottonwood | 3,789 | 80 | -- | 375 | -- | 69 | -- | -- | -- | 12 | 2,372 | 672 | 112 | 91 | 6 |
| Willow | 204 | -- | -- | -- | -- | 3 | -- | -- | -- | -- | 132 | 26 | 18 | -13 | 38 |
| Hackberry | 2,319 | -- | -- | -- | 8 | 141 | -- | -- | -- | -- | 1,282 | -- | 555 | 333 | -- |
| Aspen | 728 | -- | -- | -- | -- | 458 | -- | -- | 10 | -- | 47 | -62 | 122 | 153 | -- |
| Birch | 450 | -- | -- | 21 | -- | 82 | -- | -- | 5 | -- | 326 | -- | -- | 16 | -- |
| Sweetgum | 3,203 | 38 | -- | -- | 73 | 290 | -- | -- | 974 | 51 | 895 | -- | 525 | 357 | -- |
| Tupelo | 1,134 | 4 | 1 | 18 | 81 | 387 | -6 | 24 | 113 | 20 | 147 | -- | 204 | 141 | -- |
| Black cherry | 2,961 | 13 | -- | 29 | 15 | 439 | 27 | -- | 8 | 14 | 483 | -- | 1,158 | 770 | 5 |
| Black walnut | 3,959 | -- | -- | -- | 72 | 679 | -- | -- | 5 | -- | 1,020 | -- | 747 | 1,436 | -- |
| Butternut | 3 | -- | -- | -- | -- | -6 | -- | -- | -- | -- | 34 | -- | -18 | -7 | -- |
| Yellow-poplar | 20,032 | 152 | 6 | 121 | 331 | 4,083 | -- | 39 | 250 | -- | 1,795 | 16 | 4,013 | 9,226 | -- |
| Persimmon | 423 | -- | -- | 7 | 6 | 263 | -- | 11 | -9 | -- | 35 | -- | 77 | 33 | -- |
| Sassafras | 3,295 | -- | 6 | 11 | 17 | 1,434 | -- | 38 | 78 | 4 | 416 | -- | 738 | 553 | -- |
| Other hardwoods | 1,791 | -- | -- | 9 | -6 | 246 | -- | -- | -12 | 3 | 637 | -23 | 720 | 241 | -24 |
| Total | 146,997 | 756 | 96 | 905 | 1,801 | 49,195 | 1,454 | 129 | 2,524 | 993 | 28,044 | 804 | 33,353 | 26,886 | 57 |
| All species | 153,635 | 2,174 | -31 | 3,185 | 3,027 | 49,837 | 1,454 | 139 | 2,601 | 993 | 28,454 | 878 | 33,654 | 27,213 | 57 |

Table 61.--Net annual growth of sawtimber on timberland by species group and forest type, Indiana, 1985

(In thousand board feet)[1/]

| Species group | All types | Forest type | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jack-red-white pine | Short-leaf pine | Scotch-Virginia pine | Oak-pine | Oak-hickory | Chestnut-scarlet oak | Sassafras-persimmon | Oak-gum | Lowland oak | Elm-ash-soft maple | Cotton-wood | Maple-beech | Cherry-ash-yellow-poplar | Non-stocked |
| Softwoods | | | | | | | | | | | | | | | |
| Jack pine | 479 | 171 | -- | -- | 12 | 32 | -- | -- | -- | -- | 11 | -- | -- | 253 | -- |
| Red pine | 4,432 | 4,344 | -- | -- | -- | 88 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| White pine | 14,553 | 11,725 | -- | 397 | 873 | 938 | -- | -- | -- | -- | 557 | -- | -- | 63 | -- |
| Shortleaf pine | 2,520 | 370 | 497 | 619 | 246 | 95 | -- | -- | -- | -- | 60 | -- | -- | 633 | -- |
| Other yellow pines | 6,884 | 82 | -21 | 3,958 | 1,337 | 627 | -- | 52 | 52 | -- | 175 | 217 | 345 | 60 | -- |
| Tamarack | -131 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -131 | -- | -- | -- | -- |
| Baldcypress | 744 | -- | -- | -- | -- | -- | -- | -- | 210 | -- | 534 | -- | -- | -- | -- |
| Eastern redcedar | 6,237 | -- | -- | 588 | 2,253 | -37 | -- | -- | -- | -- | 37 | -- | 2,887 | 509 | -- |
| Other softwoods | 3,585 | -- | -- | 3,585 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 39,303 | 16,692 | 476 | 9,147 | 4,721 | 1,743 | -- | 52 | 262 | -- | 1,243 | 217 | 3,232 | 1,518 | -- |
| Hardwoods | | | | | | | | | | | | | | | |
| Select white oak | 79,020 | 231 | -- | 150 | 462 | 52,353 | 1,406 | 305 | 201 | 673 | 9,443 | -- | 9,593 | 4,184 | 19 |
| Other white oak | 13,109 | -- | 21 | -- | 86 | 7,215 | 3,982 | -- | 62 | 28 | -40 | -- | 1,300 | 455 | -- |
| Select red oak | 50,361 | 67 | -- | 1 | 511 | 29,686 | -- | -- | 98 | 66 | 1,977 | -- | 12,743 | 5,212 | -- |
| Other red oak | 77,947 | 319 | 38 | 455 | 3,424 | 55,392 | 1,423 | 58 | 928 | 1,786 | 5,098 | -- | 5,080 | 3,918 | 28 |
| Select hickory | 28,196 | 20 | -- | 31 | 212 | 17,092 | 15 | -- | 314 | 219 | 1,440 | -- | 6,874 | 1,979 | -- |
| Other hickory | 35,440 | 31 | 12 | -- | 128 | 22,699 | -127 | -- | -60 | 58 | 1,137 | -- | 9,136 | 2,426 | -- |
| Basswood | 9,019 | -- | -- | -- | 196 | 1,566 | 23 | -- | -- | 25 | 499 | -- | 5,589 | 1,121 | -- |
| Beech | 5,676 | -- | 8 | -- | -- | 278 | -- | -- | -- | -- | 120 | -- | 4,921 | 349 | -- |
| Hard maple | 59,429 | -- | 27 | 33 | 1,499 | 6,646 | 111 | 103 | 17 | -- | 5,992 | -- | 42,487 | 2,514 | -- |
| Soft maple | 36,743 | 81 | -- | 87 | 29 | 1,683 | 31 | -- | 460 | 189 | 23,228 | 1,066 | 7,871 | 2,220 | -202 |
| Elm | 6,401 | 11 | -- | -- | -14 | 560 | -- | -47 | 43 | -51 | 2,099 | -- | 2,344 | 1,456 | -- |
| Ash | 49,560 | 428 | 55 | 27 | 384 | 6,249 | -- | -55 | 428 | 451 | 15,803 | -- | 6,728 | 19,062 | -- |
| Sycamore | 31,449 | 465 | 110 | 321 | 51 | 3,182 | -- | -- | 581 | -- | 16,728 | 17 | 4,218 | 5,550 | 226 |
| Cottonwood | 19,464 | 560 | -- | 1,164 | -- | 369 | -- | -- | -- | 60 | 12,659 | 3,728 | 449 | 445 | 30 |
| Willow | 378 | -- | -- | -- | -- | -49 | -- | -- | -- | -- | 490 | -- | -28 | 29 | -64 |
| Hackberry | 10,351 | -- | -- | -- | -- | 1,578 | -- | -- | -- | -- | 3,461 | -- | 2,683 | 2,629 | -- |
| Aspen | 5,517 | -- | -- | -- | -- | 4,147 | -- | -- | 49 | -- | 129 | -- | 667 | 525 | -- |
| Birch | 1,262 | -- | -- | -- | -- | 38 | -- | -- | 68 | -- | 1,129 | -- | -- | 27 | -- |
| Sweetgum | 11,577 | -- | -- | -- | 150 | 1,121 | -- | -- | 3,641 | 276 | 2,604 | -- | 2,043 | 1,742 | -- |
| Tupelo | 5,201 | -- | 6 | 222 | 138 | 783 | -26 | -- | 526 | 68 | 495 | -- | 2,501 | 488 | -- |
| Black cherry | 16,699 | 303 | -- | 94 | -57 | 1,344 | 124 | -- | 47 | 71 | 1,150 | -- | 4,966 | 8,657 | -- |
| Black walnut | 19,928 | -- | -- | -- | 63 | 2,688 | -- | -- | 29 | -- | 7,115 | -- | 3,291 | 6,742 | -- |
| Butternut | 46 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 201 | -- | -160 | 5 | -- |
| Yellow-poplar | 90,476 | 967 | 28 | 259 | 1,058 | 16,279 | -- | 200 | 1,002 | -- | 9,000 | -- | 18,316 | 43,367 | -- |
| Persimmon | 2,198 | -- | -- | -- | -- | 1,721 | -- | -- | 238 | -- | 124 | -- | 78 | 37 | -- |
| Sassafras | 7,878 | -- | -- | 30 | 18 | 1,556 | -- | 40 | 327 | 344 | 1,633 | -- | 2,412 | 1,518 | -- |
| Other hardwoods | 13,316 | -- | -- | -- | -- | 1,138 | -- | -- | -38 | 13 | 4,735 | -37 | 7,025 | 536 | -56 |
| Total | 686,641 | 3,483 | 305 | 2,874 | 8,338 | 237,314 | 6,962 | 604 | 8,961 | 4,276 | 128,449 | 4,774 | 163,127 | 117,193 | -19 |
| All species | 725,944 | 20,175 | 781 | 12,021 | 13,059 | 239,057 | 6,962 | 656 | 9,223 | 4,276 | 129,692 | 4,991 | 166,359 | 118,711 | -19 |

[1/] International 1/4-inch rule.

Table 62.--Net annual growth of growing stock on timberland by forest type, stand-age class, and Forest Survey Unit, Indiana, 1985

(In thousand cubic feet)

| Unit and forest type | All ages | Stand-age class (years) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | 101-120 | 121-140 | 141+ |
| All Units | | | | | | | | | | | | | | |
| Jack-red-white pine | 2,174 | -- | 191 | 994 | 780 | 209 | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | -31 | -51 | -- | -- | 16 | 44 | -40 | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 3,185 | 91 | 868 | 112 | 1,330 | 623 | 76 | 85 | -- | -- | -- | -- | -- | -- |
| Oak-pine | 3,027 | 133 | 560 | 697 | 480 | 750 | 159 | 15 | 167 | -- | 66 | -- | -- | -- |
| Oak-hickory | 49,837 | 2,349 | 2,665 | 2,213 | 3,585 | 5,191 | 8,132 | 8,087 | 6,544 | 5,446 | 2,638 | 2,589 | 305 | 93 |
| Chestnut-scarlet oak | 1,454 | -- | -- | -- | 10 | -- | 84 | 302 | 117 | 284 | 307 | 64 | 286 | -- |
| Sassafras-persimmon | 139 | 50 | 59 | -- | -- | -- | 30 | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 2,601 | 25 | 392 | -- | 60 | 1,173 | 172 | 401 | -- | 191 | 102 | 85 | -- | -- |
| Lowland oak | 993 | 5 | -- | 73 | 44 | -- | 84 | 394 | 193 | 200 | -- | -- | -- | -- |
| Elm-ash-soft maple | 28,454 | 1,130 | 2,460 | 4,122 | 5,220 | 5,691 | 3,845 | 2,564 | 1,999 | 946 | 231 | 178 | 10 | 58 |
| Cottonwood | 878 | -- | 145 | 431 | -- | 55 | 183 | 40 | 24 | -- | -- | -- | -- | -- |
| Maple-beech | 33,654 | 1,684 | 2,498 | 2,243 | 3,498 | 4,011 | 5,997 | 4,697 | 3,263 | 2,945 | 1,200 | 1,271 | 260 | 87 |
| Cherry-ash-yellow-poplar | 27,213 | 879 | 2,107 | 4,098 | 5,314 | 7,314 | 3,684 | 2,340 | 823 | 464 | 190 | -- | -- | -- |
| Nonstocked | 57 | 57 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 153,635 | 6,352 | 11,945 | 14,983 | 20,337 | 25,061 | 22,406 | 18,925 | 13,130 | 10,476 | 4,734 | 4,187 | 861 | 238 |
| Lower Wabash Unit | | | | | | | | | | | | | | |
| Jack-red-white pine | 587 | -- | -- | 251 | 336 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 591 | 60 | 69 | 16 | 96 | 274 | 76 | -- | -- | -- | -- | -- | -- | -- |
| Oak-pine | 72 | -- | -- | 72 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-hickory | 11,264 | 805 | 432 | 804 | 668 | 968 | 2,478 | 1,335 | 1,674 | 1,411 | 328 | 361 | -- | -- |
| Chestnut-scarlet oak | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sassafras-persimmon | 31 | -- | 31 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 248 | -- | -- | -- | -- | 83 | -- | 63 | -- | -- | 102 | -- | -- | -- |
| Lowland oak | 212 | 5 | -- | -- | -- | -- | 98 | 61 | 48 | -- | -- | -- | -- | -- |
| Elm-ash-soft maple | 8,147 | 388 | 1,147 | 587 | 1,001 | 2,222 | 1,560 | 498 | 571 | 173 | -- | -- | -- | -- |
| Cottonwood | 349 | -- | -- | 166 | -- | -- | 183 | -- | -- | -- | -- | -- | -- | -- |
| Maple-beech | 5,475 | 259 | 361 | 455 | 461 | 1,015 | 900 | 741 | 542 | 411 | 154 | 106 | 70 | -- |
| Cherry-ash-yellow-poplar | 5,166 | 46 | 554 | 715 | 1,079 | 1,384 | 460 | 507 | 234 | 187 | -- | -- | -- | -- |
| Nonstocked | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 32,142 | 1,563 | 2,594 | 3,066 | 3,641 | 5,946 | 5,755 | 3,205 | 3,069 | 2,182 | 584 | 467 | 70 | -- |
| Knobs Unit | | | | | | | | | | | | | | |
| Jack-red-white pine | 939 | -- | 77 | 656 | 206 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | -31 | -51 | -- | -- | 16 | 44 | -40 | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 1,950 | 31 | 755 | 96 | 634 | 349 | -- | 85 | -- | -- | -- | -- | -- | -- |
| Oak-pine | 1,590 | 71 | 155 | 228 | 71 | 750 | 159 | 15 | 141 | -- | -- | -- | -- | -- |
| Oak-hickory | 26,437 | 946 | 1,913 | 665 | 2,140 | 2,736 | 3,838 | 4,586 | 3,115 | 3,364 | 1,497 | 1,510 | 128 | -1 |
| Chestnut-scarlet oak | 1,241 | -- | -- | -- | -- | -- | 84 | 166 | 117 | 217 | 307 | 64 | 286 | -- |
| Sassafras-persimmon | 108 | 50 | 28 | -- | -- | -- | 30 | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 1,484 | -7 | 15 | -- | 60 | 733 | 172 | 338 | -- | 88 | -- | 85 | -- | -- |
| Lowland oak | 136 | -- | -- | -- | -- | -- | -- | 136 | -- | -- | -- | -- | -- | -- |
| Elm-ash-soft maple | 8,857 | 394 | 1,020 | 1,417 | 1,798 | 1,214 | 1,187 | 981 | 711 | 82 | 19 | 34 | -- | -- |
| Cottonwood | 185 | -- | 145 | -- | -- | -- | -- | 40 | -- | -- | -- | -- | -- | -- |
| Maple-beech | 15,268 | 1,169 | 1,052 | 620 | 2,294 | 875 | 2,972 | 1,961 | 1,599 | 1,448 | 726 | 552 | -- | -- |
| Cherry-ash-yellow-poplar | 10,728 | 428 | 762 | 1,205 | 2,483 | 3,464 | 1,196 | 534 | 368 | 153 | 135 | -- | -- | -- |
| Nonstocked | 54 | 54 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 68,946 | 3,085 | 5,922 | 4,887 | 9,702 | 10,165 | 9,598 | 8,842 | 6,051 | 5,352 | 2,684 | 2,245 | 414 | -1 |

(Table 62 continued on next page)

(Table 62 continued)

| Unit and forest type | All ages | Stand-age class (years) 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | 101-120 | 121-140 | 141+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Upland Flats Unit | | | | | | | | | | | | | | |
| Jack-red-white pine | 218 | -- | -- | -- | 218 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 44 | -- | 44 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-pine | 1,362 | 62 | 402 | 397 | 409 | -- | -- | -- | 26 | -- | 66 | -- | -- | -- |
| Oak-hickory | 3,793 | 258 | 156 | 179 | 323 | 619 | 289 | 739 | 659 | 206 | 229 | 136 | -- | -- |
| Chestnut-scarlet oak | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 766 | 32 | 377 | -- | -- | 357 | -- | -- | -- | -- | -- | -- | -- | -- |
| Lowland oak | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Elm-ash-soft maple | 1,773 | 161 | 46 | 246 | 216 | 417 | 340 | -- | 134 | 167 | 36 | -- | 10 | -- |
| Cottonwood | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Maple-beech | 4,058 | 75 | 505 | 125 | 280 | 125 | 1,161 | 631 | 376 | 513 | -- | 267 | -- | -- |
| Cherry-ash-yellow-poplar | 4,807 | 103 | 498 | 1,028 | 574 | 806 | 971 | 745 | 82 | -- | -- | -- | -- | -- |
| Nonstocked | -54 | -54 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 16,767 | 637 | 2,028 | 1,975 | 2,020 | 2,324 | 2,761 | 2,115 | 1,277 | 886 | 331 | 403 | 10 | -- |
| Northern Unit | | | | | | | | | | | | | | |
| Jack-red-white pine | 430 | -- | 114 | 87 | 20 | 209 | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 600 | -- | -- | -- | 600 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-pine | 3 | -- | 3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-hickory | 8,343 | 340 | 164 | 565 | 454 | 868 | 1,527 | 1,427 | 1,096 | 465 | 584 | 582 | 177 | 94 |
| Chestnut-scarlet oak | 213 | -- | -- | -- | 10 | -- | -- | 136 | -- | 67 | -- | -- | -- | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 103 | -- | -- | -- | -- | -- | -- | -- | -- | 103 | -- | -- | -- | -- |
| Lowland oak | 645 | -- | -- | 73 | 44 | -- | -14 | 197 | 145 | 200 | -- | -- | -- | -- |
| Elm-ash-soft maple | 9,677 | 187 | 247 | 1,872 | 2,205 | 1,838 | 758 | 1,085 | 583 | 524 | 176 | 144 | -- | 58 |
| Cottonwood | 344 | -- | -- | 265 | -- | 55 | -- | -- | 24 | -- | -- | -- | -- | -- |
| Maple-beech | 8,853 | 181 | 580 | 1,043 | 463 | 1,996 | 964 | 1,364 | 746 | 573 | 320 | 346 | 190 | 87 |
| Cherry-ash-yellow-poplar | 6,512 | 302 | 293 | 1,150 | 1,178 | 1,660 | 1,057 | 554 | 139 | 124 | 55 | -- | -- | -- |
| Nonstocked | 57 | 57 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 35,780 | 1,067 | 1,401 | 5,055 | 4,974 | 6,626 | 4,292 | 4,763 | 2,733 | 2,056 | 1,135 | 1,072 | 367 | 239 |

Table 63.--Net annual growth of sawtimber on timberland by forest type, stand-age class, and Forest Survey Unit, Indiana, 1985

(In thousand board feet)[1/]

| Unit and forest type | All ages | Stand-age class (years) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | 101-120 | 121-140 | 141+ |
| All Units | | | | | | | | | | | | | | |
| Jack-red-white pine | 20,175 | -- | 360 | 10,868 | 4,732 | 4,215 | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | 781 | 65 | -- | -- | 379 | 236 | 101 | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 12,021 | -- | 1,168 | 316 | 7,129 | 2,869 | 206 | 333 | -- | -- | -- | -- | -- | -- |
| Oak-pine | 13,059 | 858 | 3,542 | 1,122 | 1,255 | 3,649 | 2,113 | 104 | 347 | -- | 69 | -- | -- | -- |
| Oak-hickory | 239,057 | 8,510 | 10,515 | 7,955 | 10,168 | 29,665 | 46,770 | 35,322 | 27,972 | 33,453 | 15,214 | 11,960 | 1,306 | 247 |
| Chestnut-scarlet oak | 6,962 | -- | -- | -- | 19 | -- | 391 | 2,195 | 552 | 1,377 | 1,494 | 195 | 739 | -- |
| Sassafras-persimmon | 656 | 415 | 66 | -- | -- | -- | 175 | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 9,223 | 382 | 472 | -- | 123 | 4,755 | 842 | 1,298 | -- | 582 | 451 | 318 | -- | -- |
| Lowland oak | 4,276 | 25 | -- | -- | 132 | -- | 475 | 1,978 | 1,079 | 587 | -- | -- | -- | -- |
| Elm-ash-soft maple | 129,692 | 8,187 | 8,866 | 12,440 | 25,342 | 35,948 | 15,768 | 10,738 | 6,933 | 3,428 | 1,058 | 724 | 56 | 204 |
| Cottonwood | 4,991 | -- | 664 | 2,362 | -- | 305 | 1,277 | 284 | 99 | -- | -- | -- | -- | -- |
| Maple-beech | 166,359 | 6,499 | 13,283 | 8,652 | 12,327 | 23,808 | 31,349 | 25,380 | 17,382 | 17,378 | 5,033 | 4,064 | 841 | 363 |
| Cherry-ash-yellow-poplar | 118,711 | 2,473 | 2,875 | 10,347 | 29,639 | 31,273 | 22,861 | 10,817 | 5,673 | 2,095 | 658 | -- | -- | -- |
| Nonstocked | -19 | -19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 725,944 | 27,395 | 41,811 | 54,062 | 91,245 | 136,723 | 122,328 | 88,449 | 60,037 | 58,900 | 23,977 | 17,261 | 2,942 | 814 |
| Lower Wabash Unit | | | | | | | | | | | | | | |
| Jack-red-white pine | 3,422 | -- | -- | 1,117 | 2,305 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 1,870 | -- | 31 | -- | 237 | 1,396 | 206 | -- | -- | -- | -- | -- | -- | -- |
| Oak-pine | 246 | -- | -- | 246 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-hickory | 60,050 | 2,046 | 3,478 | 3,368 | 2,374 | 8,046 | 15,839 | 7,317 | 6,859 | 6,787 | 2,441 | 1,495 | -- | -- |
| Chestnut-scarlet oak | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 970 | -- | -- | -- | -- | 243 | -- | 276 | -- | -- | 451 | -- | -- | -- |
| Lowland oak | 919 | 25 | -- | -- | -- | -- | 474 | 253 | 167 | -- | -- | -- | -- | -- |
| Elm-ash-soft maple | 39,204 | 5,596 | 4,715 | 2,453 | 3,546 | 12,228 | 5,683 | 2,079 | 2,447 | 457 | -- | -- | -- | -- |
| Cottonwood | 2,232 | -- | -- | 955 | -- | -- | 1,277 | -- | -- | -- | -- | -- | -- | -- |
| Maple-beech | 27,002 | 206 | 568 | 3,755 | 658 | 5,617 | 5,161 | 3,875 | 2,492 | 3,254 | 613 | 549 | 254 | -- |
| Cherry-ash-yellow-poplar | 17,886 | 250 | 1,250 | 2,400 | 4,182 | 5,613 | 1,723 | 1,713 | 518 | 237 | -- | -- | -- | -- |
| Nonstocked | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 153,801 | 8,123 | 10,042 | 14,294 | 13,302 | 33,143 | 30,363 | 15,513 | 12,483 | 10,735 | 3,505 | 2,044 | 254 | -- |
| Knobs Unit | | | | | | | | | | | | | | |
| Jack-red-white pine | 10,937 | -- | -- | 9,617 | 1,320 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | 781 | 65 | -- | -- | 379 | 236 | 101 | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 5,705 | -- | 1,112 | 316 | 2,471 | 1,473 | -- | 333 | -- | -- | -- | -- | -- | -- |
| Oak-pine | 10,974 | 853 | 3,062 | 751 | 123 | 3,649 | 2,113 | 104 | 319 | -- | -- | -- | -- | -- |
| Oak-hickory | 122,325 | 4,478 | 6,122 | 2,645 | 6,668 | 14,365 | 20,552 | 19,590 | 12,979 | 19,537 | 7,922 | 6,825 | 629 | 13 |
| Chestnut-scarlet oak | 5,134 | -- | -- | -- | -- | -- | 391 | 869 | 552 | 894 | 1,494 | 195 | 739 | -- |
| Sassafras-persimmon | 656 | 415 | 66 | -- | -- | -- | 175 | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 5,721 | -- | 77 | -- | 123 | 3,121 | 842 | 1,022 | -- | 218 | -- | 318 | -- | -- |
| Lowland oak | 644 | -- | -- | -- | -- | -- | -- | 644 | -- | -- | -- | -- | -- | -- |
| Elm-ash-soft maple | 44,651 | 1,498 | 3,081 | 3,012 | 10,353 | 14,191 | 4,836 | 4,992 | 2,027 | 466 | 67 | 128 | -- | -- |
| Cottonwood | 948 | -- | 664 | -- | -- | -- | -- | 284 | -- | -- | -- | -- | -- | -- |
| Maple-beech | 80,653 | 5,457 | 9,855 | 1,257 | 9,145 | 4,931 | 15,742 | 13,051 | 9,820 | 6,924 | 2,905 | 1,566 | -- | -- |
| Cherry-ash-yellow-poplar | 56,993 | 1,553 | 1,201 | 3,725 | 18,082 | 14,225 | 12,457 | 1,617 | 2,287 | 1,401 | 445 | -- | -- | -- |
| Nonstocked | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 346,122 | 14,319 | 25,240 | 21,323 | 48,664 | 56,191 | 57,209 | 42,506 | 27,984 | 29,440 | 12,833 | 9,032 | 1,368 | 13 |

(Table 63 continued on next page)

[1/] International 1/4-inch rule.

(Table 63 continued)

| Unit and forest type | All ages | Stand-age class (years) 1-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | 101-120 | 121-140 | 141+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Upland Flats Unit | | | | | | | | | | | | | | |
| Jack-red-white pine | 1,064 | -- | -- | -- | 1,064 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 25 | -- | 25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-pine | 1,821 | 5 | 462 | 125 | 1,132 | -- | -- | -- | 28 | -- | 69 | -- | -- | -- |
| Oak-hickory | 14,969 | 923 | 490 | 341 | 605 | 2,440 | 1,356 | 2,483 | 2,827 | 738 | 2,108 | 658 | -- | -- |
| Chestnut-scarlet oak | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 2,168 | 382 | 395 | -- | -- | 1,391 | -- | -- | -- | -- | -- | -- | -- | -- |
| Lowland oak | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Elm-ash-soft maple | 6,077 | 331 | 348 | 1,034 | 229 | 1,932 | 684 | -- | 833 | 517 | 113 | -- | 56 | -- |
| Cottonwood | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Maple-beech | 18,667 | 120 | 1,857 | 223 | 768 | 564 | 4,527 | 3,770 | 1,407 | 4,493 | -- | 938 | -- | -- |
| Cherry-ash-yellow-poplar | 17,727 | 364 | 204 | 2,614 | 1,609 | 3,810 | 4,050 | 4,638 | 438 | -- | -- | -- | -- | -- |
| Nonstocked | -158 | -158 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 62,360 | 1,967 | 3,781 | 4,337 | 5,407 | 10,137 | 10,617 | 10,891 | 5,533 | 5,748 | 2,290 | 1,596 | 56 | -- |
| Northern Unit | | | | | | | | | | | | | | |
| Jack-red-white pine | 4,752 | -- | 360 | 134 | 43 | 4,215 | -- | -- | -- | -- | -- | -- | -- | -- |
| Shortleaf pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotch-Virginia pine | 4,421 | -- | -- | -- | 4,421 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-pine | 18 | -- | 18 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-hickory | 41,713 | 1,063 | 425 | 1,601 | 521 | 4,814 | 9,023 | 5,932 | 5,307 | 6,391 | 2,743 | 2,982 | 677 | 234 |
| Chestnut-scarlet oak | 1,828 | -- | -- | -- | 19 | -- | -- | 1,326 | -- | 483 | -- | -- | -- | -- |
| Sassafras-persimmon | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Oak-gum | 364 | -- | -- | -- | -- | -- | -- | -- | -- | 364 | -- | -- | -- | -- |
| Lowland oak | 2,713 | -- | -- | -- | 132 | -- | 1 | 1,081 | 912 | 587 | -- | -- | -- | -- |
| Elm-ash-soft maple | 39,760 | 762 | 722 | 5,941 | 11,214 | 7,597 | 4,565 | 3,667 | 1,626 | 1,988 | 878 | 596 | -- | 204 |
| Cottonwood | 1,811 | -- | -- | 1,407 | -- | 305 | -- | -- | 99 | -- | -- | -- | -- | -- |
| Maple-beech | 40,037 | 716 | 1,003 | 3,417 | 1,756 | 12,696 | 5,919 | 4,684 | 3,663 | 2,707 | 1,515 | 1,011 | 587 | 363 |
| Cherry-ash-yellow-poplar | 26,105 | 306 | 220 | 1,608 | 5,766 | 7,625 | 4,631 | 2,849 | 2,430 | 457 | 213 | -- | -- | -- |
| Nonstocked | 139 | 139 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 163,661 | 2,986 | 2,748 | 14,108 | 23,872 | 37,252 | 24,139 | 19,539 | 14,037 | 12,977 | 5,349 | 4,589 | 1,264 | 801 |

Table 64.--Net annual growth of growing stock on timberland by forest type, stand-size class, and basal-area class, Indiana, 1985

(In thousand cubic feet)

| Forest type and stand-size class | All classes | Basal-area class (square feet per acre) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | 101-120 | 121-150 | 151-180 | 181+ |
| Jack-red-white pine | | | | | | | | | | | | | | | |
| Sawtimber | 1,018 | -- | -- | -- | -- | 62 | -- | -- | -- | -79 | -- | 515 | -- | 520 | -- |
| Poletimber | 1,079 | -- | -- | -- | 20 | -- | -- | -- | -- | 123 | 87 | 554 | 181 | 114 | -- |
| Sapling & seedling | 77 | -- | -- | -- | -- | -- | -- | 77 | -- | -- | -- | -- | -- | -- | -- |
| All stands | 2,174 | -- | -- | -- | 20 | 62 | -- | 77 | -- | 44 | 87 | 1,069 | 181 | 634 | -- |
| Shortleaf pine | | | | | | | | | | | | | | | |
| Sawtimber | 20 | -- | -- | -- | -- | -- | -- | -- | -16 | -36 | -- | 12 | 60 | -- | -- |
| Poletimber | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | -51 | -- | -- | -- | -- | -51 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | -31 | -- | -- | -- | -- | -51 | -- | -- | -16 | -36 | -- | 12 | 60 | -- | -- |
| Scotch-Virginia pine | | | | | | | | | | | | | | | |
| Sawtimber | 1,151 | -- | -- | -- | -- | -- | -- | -- | -- | 277 | -- | 495 | 379 | -- | -- |
| Poletimber | 1,189 | -- | -- | -- | -- | 87 | -- | -- | 105 | 123 | 274 | 96 | -- | 504 | -- |
| Sapling & seedling | 845 | 85 | 52 | 9 | 48 | -- | 149 | 382 | 76 | -- | -- | 44 | -- | -- | -- |
| All stands | 3,185 | 85 | 52 | 9 | 48 | 87 | 149 | 382 | 181 | 400 | 274 | 635 | 379 | 504 | -- |
| Oak-pine | | | | | | | | | | | | | | | |
| Sawtimber | 1,420 | -- | -- | -- | -- | 36 | 77 | 16 | 72 | 386 | 106 | 644 | 83 | -- | -- |
| Poletimber | 957 | -- | -- | -- | -- | -- | 110 | 118 | 347 | 93 | -- | 146 | 143 | -- | -- |
| Sapling & seedling | 650 | 3 | -- | -- | 95 | 23 | 115 | 98 | 193 | 123 | -- | -- | -- | -- | -- |
| All stands | 3,027 | 3 | -- | -- | 95 | 59 | 302 | 232 | 612 | 602 | 106 | 790 | 226 | -- | -- |
| Oak-hickory | | | | | | | | | | | | | | | |
| Sawtimber | 37,850 | -- | 55 | -- | 65 | 475 | 1,313 | 1,106 | 3,951 | 7,354 | 5,410 | 12,240 | 5,384 | 497 | -- |
| Poletimber | 6,951 | -- | -- | 44 | -- | 138 | 654 | 1,210 | 1,905 | 950 | 676 | 1,016 | 358 | -- | -- |
| Sapling & seedling | 5,036 | 133 | 507 | 739 | 309 | 722 | 992 | 531 | 709 | 317 | -- | 77 | -- | -- | -- |
| All stands | 49,837 | 133 | 562 | 783 | 374 | 1,335 | 2,959 | 2,847 | 6,565 | 8,621 | 6,086 | 13,333 | 5,742 | 497 | -- |
| Chestnut-scarlet oak | | | | | | | | | | | | | | | |
| Sawtimber | 1,454 | -- | -- | 10 | -- | -- | 42 | -24 | -- | 379 | 155 | 744 | 148 | -- | -- |
| Poletimber | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 1,454 | -- | -- | 10 | -- | -- | 42 | -24 | -- | 379 | 155 | 744 | 148 | -- | -- |
| Sassafras-persimmon | | | | | | | | | | | | | | | |
| Sawtimber | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Poletimber | 58 | -- | -- | -- | -- | -- | -- | -- | 28 | -- | -- | 30 | -- | -- | -- |
| Sapling & seedling | 81 | 31 | -- | -- | -- | 50 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 139 | 31 | -- | -- | -- | 50 | -- | -- | 28 | -- | -- | 30 | -- | -- | -- |
| Oak-gum | | | | | | | | | | | | | | | |
| Sawtimber | 2,120 | -- | -- | -- | 39 | -- | -- | -- | 63 | -- | 565 | 1,138 | 315 | -- | -- |
| Poletimber | 64 | -- | -- | -- | -- | -- | -- | -- | -- | 4 | -- | 60 | -- | -- | -- |
| Sapling & seedling | 417 | -- | 8 | 24 | 15 | 81 | -7 | 296 | -- | -- | -- | -- | -- | -- | -- |
| All stands | 2,601 | -- | 8 | 24 | 54 | 81 | -7 | 296 | 63 | 4 | 565 | 1,198 | 315 | -- | -- |

(Table 64 continued on next page)

(Table 64 continued)

| Forest type and stand-size class | All classes | Basal-area class (square feet per acre) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | 101-120 | 121-150 | 151-180 | 181+ |
| Lowland oak | | | | | | | | | | | | | | | |
| Sawtimber | 871 | -- | -- | -- | -- | -27 | -- | 56 | -- | 184 | -- | 658 | -- | -- | -- |
| Poletimber | 117 | -- | -- | -- | -- | -- | -- | 44 | 73 | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | 5 | -- | -- | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 993 | -- | -- | 5 | -- | -27 | -- | 100 | 73 | 184 | -- | 658 | -- | -- | -- |
| Elm-ash-soft maple | | | | | | | | | | | | | | | |
| Sawtimber | 19,497 | -- | -- | 157 | 135 | 323 | 224 | 864 | 2,064 | 2,516 | 3,025 | 5,806 | 3,337 | 933 | 113 |
| Poletimber | 6,281 | -- | -- | 35 | 299 | 91 | 588 | 489 | 1,493 | 1,067 | 817 | 1,402 | -- | -- | -- |
| Sapling & seedling | 2,676 | 56 | 157 | 157 | 338 | 700 | 202 | 252 | 463 | 351 | -- | -- | -- | -- | -- |
| All stands | 28,454 | 56 | 157 | 349 | 772 | 1,114 | 1,014 | 1,605 | 4,020 | 3,934 | 3,842 | 7,208 | 3,337 | 933 | 113 |
| Cottonwood | | | | | | | | | | | | | | | |
| Sawtimber | 567 | -- | -- | -- | 24 | 55 | -- | -- | 40 | -- | -- | 265 | 183 | -- | -- |
| Poletimber | 311 | 145 | -- | -- | -- | -- | 114 | 52 | -- | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 878 | 145 | -- | -- | 24 | 55 | 114 | 52 | 40 | -- | -- | 265 | 183 | -- | -- |
| Maple-beech | | | | | | | | | | | | | | | |
| Sawtimber | 25,382 | -- | -- | 44 | 82 | 470 | 1,747 | 1,366 | 3,625 | 3,779 | 3,106 | 7,719 | 2,878 | 566 | -- |
| Poletimber | 4,216 | 43 | -- | -- | 25 | 62 | 453 | 369 | 901 | 624 | 354 | 1,287 | 98 | -- | -- |
| Sapling & seedling | 4,056 | -- | 370 | 99 | 406 | 962 | 691 | 791 | 460 | -- | 82 | 195 | -- | -- | -- |
| All stands | 33,654 | 43 | 370 | 143 | 513 | 1,494 | 2,891 | 2,526 | 4,986 | 4,403 | 3,542 | 9,201 | 2,976 | 566 | -- |
| Cherry-ash-yellow-poplar | | | | | | | | | | | | | | | |
| Sawtimber | 18,893 | 34 | -- | 53 | 21 | 161 | 425 | 1,138 | 1,340 | 2,957 | 1,692 | 6,976 | 3,432 | 423 | 241 |
| Poletimber | 5,700 | -- | -- | 49 | -- | -- | 539 | 396 | 1,534 | 1,257 | 544 | 851 | 530 | -- | -- |
| Sapling & seedling | 2,620 | 60 | 258 | 379 | 341 | 487 | 245 | 230 | 443 | 142 | 35 | -- | -- | -- | -- |
| All stands | 27,213 | 94 | 258 | 481 | 362 | 648 | 1,209 | 1,764 | 3,317 | 4,356 | 2,271 | 7,827 | 3,962 | 423 | 241 |
| Nonstocked | 57 | 65 | -2 | 38 | -- | 1 | 27 | -- | 1 | -79 | 6 | -- | -- | -- | -- |
| All types | | | | | | | | | | | | | | | |
| Sawtimber | 110,243 | 34 | 55 | 264 | 366 | 1,555 | 3,828 | 4,522 | 11,139 | 17,717 | 14,059 | 37,212 | 16,199 | 2,939 | 354 |
| Poletimber | 26,923 | 188 | -- | 128 | 344 | 378 | 2,458 | 2,678 | 6,386 | 4,241 | 2,752 | 5,442 | 1,310 | 618 | -- |
| Sapling & seedling | 16,412 | 368 | 1,352 | 1,412 | 1,552 | 2,974 | 2,387 | 2,657 | 2,344 | 933 | 117 | 316 | -- | -- | -- |
| Nonstocked | 57 | 65 | -2 | 38 | -- | 1 | 27 | -- | 1 | -79 | 6 | -- | -- | -- | -- |
| All stands | 153,635 | 655 | 1,405 | 1,842 | 2,262 | 4,908 | 8,700 | 9,857 | 19,870 | 22,812 | 16,934 | 42,970 | 17,509 | 3,557 | 354 |

Table 65.--Net annual growth of sawtimber on timberland by forest type, stand-size class, and basal-area class, Indiana, 1985

(In thousand board feet)[1/]

| Forest type and stand-size class | All classes | Basal-area class (square feet per acre) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | 101-120 | 121-150 | 151-180 | 181+ |
| Jack-red-white pine | | | | | | | | | | | | | | | |
| Sawtimber | 15,171 | -- | -- | -- | -- | 357 | -- | -- | -- | 6,356 | -- | 2,541 | -- | 5,917 | -- |
| Poletimber | 5,004 | -- | -- | -- | 43 | -- | -- | -- | -- | 1,206 | 134 | 1,702 | 1,559 | 360 | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 20,175 | -- | -- | -- | 43 | 357 | -- | -- | -- | 7,562 | 134 | 4,243 | 1,559 | 6,277 | -- |
| Shortleaf pine | | | | | | | | | | | | | | | |
| Sawtimber | 716 | -- | -- | -- | -- | -- | -- | -- | -34 | 32 | -- | 495 | 223 | -- | -- |
| Poletimber | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | 65 | -- | -- | -- | -- | 65 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 781 | -- | -- | -- | -- | 65 | -- | -- | -34 | 32 | -- | 495 | 223 | -- | -- |
| Scotch-Virginia pine | | | | | | | | | | | | | | | |
| Sawtimber | 5,222 | -- | -- | -- | -- | -- | -- | -- | -- | 1,443 | -- | 1,855 | 1,924 | -- | -- |
| Poletimber | 5,979 | -- | -- | -- | -- | 267 | -- | -- | 581 | 397 | 566 | 237 | -- | 3,931 | -- |
| Sapling & seedling | 820 | 45 | -- | 49 | -- | -- | 31 | 670 | -- | -- | -- | 25 | -- | -- | -- |
| All stands | 12,021 | 45 | -- | 49 | -- | 267 | 31 | 670 | 581 | 1,840 | 566 | 2,117 | 1,924 | 3,931 | -- |
| Oak-pine | | | | | | | | | | | | | | | |
| Sawtimber | 7,171 | -- | -- | -- | -- | 118 | 219 | 154 | 246 | 992 | 255 | 4,799 | 388 | -- | -- |
| Poletimber | 1,931 | -- | -- | -- | -- | -- | 106 | 134 | 1,047 | 194 | -- | 229 | 221 | -- | -- |
| Sapling & seedling | 3,957 | 12 | -- | -- | 18 | -- | 1,274 | 2,629 | -- | 24 | -- | -- | -- | -- | -- |
| All stands | 13,059 | 12 | -- | -- | 18 | 118 | 1,599 | 2,917 | 1,293 | 1,210 | 255 | 5,028 | 609 | -- | -- |
| Oak-hickory | | | | | | | | | | | | | | | |
| Sawtimber | 197,796 | -- | 274 | -- | 349 | 2,903 | 6,732 | 5,803 | 17,804 | 39,573 | 25,013 | 69,290 | 27,218 | 2,837 | -- |
| Poletimber | 22,069 | -- | -- | 8 | -- | 623 | 1,688 | 7,371 | 2,968 | 5,109 | 1,549 | 2,091 | 662 | -- | -- |
| Sapling & seedling | 19,192 | 631 | 2,440 | 2,444 | 522 | 3,259 | 3,132 | 2,972 | 2,979 | 521 | -- | 292 | -- | -- | -- |
| All stands | 239,057 | 631 | 2,714 | 2,452 | 871 | 6,785 | 11,552 | 16,146 | 23,751 | 45,203 | 26,562 | 71,673 | 27,880 | 2,837 | -- |
| Chestnut-scarlet oak | | | | | | | | | | | | | | | |
| Sawtimber | 6,962 | -- | -- | 19 | -- | -- | 223 | -149 | -- | 2,447 | 654 | 3,060 | 708 | -- | -- |
| Poletimber | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 6,962 | -- | -- | 19 | -- | -- | 223 | -149 | -- | 2,447 | 654 | 3,060 | 708 | -- | -- |
| Sassafras-persimmon | | | | | | | | | | | | | | | |
| Sawtimber | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Poletimber | 241 | -- | -- | -- | -- | -- | -- | -- | 66 | -- | -- | 175 | -- | -- | -- |
| Sapling & seedling | 415 | -- | -- | -- | -- | 415 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 656 | -- | -- | -- | -- | 415 | -- | -- | 66 | -- | -- | 175 | -- | -- | -- |
| Oak-gum | | | | | | | | | | | | | | | |
| Sawtimber | 8,228 | -- | -- | -- | 156 | -- | -- | -- | 276 | -- | 2,650 | 3,871 | 1,275 | -- | -- |
| Poletimber | 141 | -- | -- | -- | -- | -- | -- | -- | -- | 18 | -- | 123 | -- | -- | -- |
| Sapling & seedling | 854 | -- | 36 | 346 | 77 | 395 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 9,223 | -- | 36 | 346 | 233 | 395 | -- | -- | 276 | 18 | 2,650 | 3,994 | 1,275 | -- | -- |

(Table 65 continued on next page)

[1/] International 1/4-inch rule.

(Table 65 continued)

| Forest type and stand-size class | All classes | Basal-area class (square feet per acre) 0-10 | 11-20 | 21-30 | 31-40 | 41-50 | 51-60 | 61-70 | 71-80 | 81-90 | 91-100 | 101-120 | 121-150 | 151-180 | 181+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lowland oak | | | | | | | | | | | | | | | |
| Sawtimber | 4,119 | -- | -- | -- | -- | -57 | -- | 293 | -- | 811 | -- | 3,072 | -- | -- | -- |
| Poletimber | 132 | -- | -- | -- | -- | -- | -- | 132 | -- | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | 25 | -- | -- | 25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 4,276 | -- | -- | 25 | -- | -57 | -- | 425 | -- | 811 | -- | 3,072 | -- | -- | -- |
| Elm-ash-soft maple | | | | | | | | | | | | | | | |
| Sawtimber | 99,509 | -- | -- | 4,718 | 838 | 1,325 | 1,181 | 8,305 | 7,843 | 12,701 | 13,300 | 29,989 | 12,441 | 6,352 | 516 |
| Poletimber | 17,667 | -- | -- | 36 | 181 | 2,106 | 694 | 1,259 | 3,528 | 4,263 | 1,551 | 4,049 | -- | -- | -- |
| Sapling & seedling | 12,516 | 365 | 620 | 430 | 1,372 | 1,235 | 589 | 539 | 1,948 | 5,418 | -- | -- | -- | -- | -- |
| All stands | 129,692 | 365 | 620 | 5,184 | 2,391 | 4,666 | 2,464 | 10,103 | 13,319 | 22,382 | 14,851 | 34,038 | 12,441 | 6,352 | 516 |
| Cottonwood | | | | | | | | | | | | | | | |
| Sawtimber | 3,372 | -- | -- | -- | 99 | 305 | -- | -- | 284 | -- | -- | 1,407 | 1,277 | -- | -- |
| Poletimber | 1,619 | 664 | -- | -- | -- | -- | 738 | 217 | -- | -- | -- | -- | -- | -- | -- |
| Sapling & seedling | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All stands | 4,991 | 664 | -- | -- | 99 | 305 | 738 | 217 | 284 | -- | -- | 1,407 | 1,277 | -- | -- |
| Maple-beech | | | | | | | | | | | | | | | |
| Sawtimber | 130,777 | -- | -- | 183 | 553 | 2,891 | 11,240 | 10,234 | 18,828 | 16,341 | 14,428 | 37,438 | 15,740 | 2,901 | -- |
| Poletimber | 16,426 | 270 | -- | -- | 28 | 103 | 4,014 | 2,948 | 2,266 | 1,513 | 1,047 | 3,624 | 613 | -- | -- |
| Sapling & seedling | 19,156 | 2 | 1,874 | 62 | 963 | 5,055 | 740 | 8,585 | 1,550 | -- | 97 | 228 | -- | -- | -- |
| All stands | 166,359 | 272 | 1,874 | 245 | 1,544 | 8,049 | 15,994 | 21,767 | 22,644 | 17,854 | 15,572 | 41,290 | 16,353 | 2,901 | -- |
| Cherry-ash-yellow-poplar | | | | | | | | | | | | | | | |
| Sawtimber | 98,118 | 100 | -- | 266 | 321 | 1,117 | 1,852 | 8,611 | 5,426 | 15,218 | 6,443 | 37,848 | 18,529 | 1,653 | 734 |
| Poletimber | 15,685 | -- | -- | 57 | -- | -- | 1,169 | 831 | 2,558 | 4,463 | 1,533 | 3,497 | 1,577 | -- | -- |
| Sapling & seedling | 4,908 | 250 | 193 | 201 | 183 | 1,243 | 938 | 307 | 919 | 545 | 129 | -- | -- | -- | -- |
| All stands | 118,711 | 350 | 193 | 524 | 504 | 2,360 | 3,959 | 9,749 | 8,903 | 20,226 | 8,105 | 41,345 | 20,106 | 1,653 | 734 |
| Nonstocked | -19 | -- | -31 | 164 | -- | -- | 144 | -- | -- | -322 | 26 | -- | -- | -- | -- |
| All types | | | | | | | | | | | | | | | |
| Sawtimber | 577,161 | 100 | 274 | 5,186 | 2,316 | 8,959 | 21,447 | 33,251 | 50,673 | 95,914 | 62,743 | 195,665 | 79,723 | 19,660 | 1,250 |
| Poletimber | 86,894 | 934 | -- | 101 | 252 | 3,099 | 8,409 | 12,892 | 13,014 | 17,163 | 6,380 | 15,727 | 4,632 | 4,291 | -- |
| Sapling & seedling | 61,908 | 1,305 | 5,163 | 3,557 | 3,135 | 11,667 | 6,704 | 15,702 | 7,396 | 6,508 | 226 | 545 | -- | -- | -- |
| Nonstocked | -19 | -- | -31 | 164 | -- | -- | 144 | -- | -- | -322 | 26 | -- | -- | -- | -- |
| All stands | 725,944 | 2,339 | 5,406 | 9,008 | 5,703 | 23,725 | 36,704 | 61,845 | 71,083 | 119,263 | 69,375 | 211,937 | 84,355 | 23,951 | 1,250 |

Table 66.--Net annual growth of growing stock and sawtimber on timberland by county and species group, Indiana, 1985

| Unit and county | Growing stock | | | | | Sawtimber | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All species | Pine | Other softwoods | Soft hardwoods | Hard hardwoods | All species | Pine | Other softwoods | Soft hardwoods | Hard hardwoods |
| | Thousand cubic feet | | | | | Thousand board feet[1/] | | | | |
| Lower Wabash Unit | | | | | | | | | | |
| Clay | 1,635 | 105 | 20 | 696 | 814 | 8,293 | 464 | 83 | 2,808 | 4,938 |
| Daviess | 1,522 | 40 | 9 | 714 | 759 | 7,045 | 227 | 20 | 2,716 | 4,082 |
| Gibson | 1,536 | 53 | 10 | 746 | 727 | 6,931 | 307 | 27 | 2,756 | 3,841 |
| Greene | 3,875 | 193 | 33 | 1,768 | 1,881 | 17,306 | 986 | 140 | 6,394 | 9,786 |
| Knox | 1,043 | 12 | 8 | 446 | 577 | 5,265 | 46 | 5 | 1,834 | 3,380 |
| Martin | 4,673 | 19 | 6 | 1,911 | 2,737 | 23,816 | 61 | 8 | 8,168 | 15,579 |
| Parke | 3,544 | 145 | 20 | 1,753 | 1,626 | 16,252 | 926 | 81 | 6,626 | 8,619 |
| Pike | 3,278 | 110 | 15 | 1,598 | 1,555 | 14,694 | 694 | 60 | 5,969 | 7,971 |
| Posey | 1,728 | 36 | 9 | 772 | 911 | 8,591 | 211 | 19 | 3,169 | 5,192 |
| Putnam | 2,811 | 30 | 9 | 1,098 | 1,674 | 16,013 | 61 | 10 | 5,024 | 10,918 |
| Sullivan | 2,473 | 93 | 17 | 1,157 | 1,206 | 11,208 | 528 | 62 | 4,384 | 6,234 |
| Vanderburgh | 917 | 20 | 4 | 409 | 484 | 4,367 | 106 | 11 | 1,550 | 2,700 |
| Vermillion | 1,247 | 22 | 6 | 529 | 690 | 5,783 | 102 | 17 | 2,023 | 3,641 |
| Vigo | 1,860 | 54 | 10 | 903 | 893 | 8,237 | 309 | 28 | 3,301 | 4,599 |
| Total | 32,142 | 932 | 176 | 14,500 | 16,534 | 153,801 | 5,028 | 571 | 56,722 | 91,480 |
| Knobs Unit | | | | | | | | | | |
| Brown | 5,261 | 212 | 89 | 1,893 | 3,067 | 27,360 | 1,640 | 538 | 9,031 | 16,151 |
| Clark | 3,452 | 245 | 68 | 1,292 | 1,847 | 17,252 | 933 | 349 | 6,795 | 9,175 |
| Crawford | 4,600 | 77 | 78 | 1,767 | 2,678 | 22,989 | 1,442 | 412 | 7,487 | 13,648 |
| Dubois | 3,727 | 186 | 69 | 1,369 | 2,103 | 19,040 | 740 | 401 | 6,514 | 11,385 |
| Floyd | 1,394 | 56 | 17 | 505 | 816 | 7,961 | 254 | 126 | 2,364 | 5,217 |
| Harrison | 5,593 | 275 | 150 | 2,232 | 2,936 | 25,693 | 1,294 | 442 | 9,949 | 14,008 |
| Jackson | 4,692 | 128 | 138 | 1,932 | 2,494 | 21,718 | 1,381 | 322 | 7,452 | 12,563 |
| Lawrence | 4,999 | 113 | 56 | 1,776 | 3,054 | 26,324 | 1,269 | 502 | 7,973 | 16,580 |
| Monroe | 4,811 | 143 | 85 | 1,830 | 2,753 | 23,521 | 661 | 475 | 7,720 | 14,665 |
| Morgan | 3,499 | 130 | 73 | 1,396 | 1,900 | 16,010 | 491 | 275 | 6,196 | 9,048 |
| Orange | 4,946 | 81 | 103 | 1,904 | 2,858 | 25,061 | 2,060 | 372 | 7,995 | 14,634 |
| Owen | 4,219 | 180 | 95 | 1,537 | 2,407 | 22,905 | 822 | 476 | 6,963 | 14,644 |
| Perry | 5,441 | 66 | 76 | 1,970 | 3,329 | 29,490 | 2,681 | 409 | 8,394 | 18,006 |
| Scott | 1,763 | 101 | 42 | 689 | 931 | 8,198 | 376 | 157 | 3,165 | 4,500 |
| Spencer | 2,477 | 136 | 67 | 963 | 1,311 | 11,357 | 545 | 232 | 4,254 | 6,326 |
| Warrick | 3,279 | 196 | 118 | 1,397 | 1,568 | 14,014 | 624 | 257 | 5,875 | 7,258 |
| Washington | 4,793 | 287 | 77 | 1,729 | 2,700 | 27,229 | 1,381 | 446 | 8,178 | 17,224 |
| Total | 68,946 | 2,612 | 1,401 | 26,181 | 38,752 | 346,122 | 18,594 | 6,191 | 116,305 | 205,032 |
| Upland Flats Unit | | | | | | | | | | |
| Dearborn | 2,699 | 5 | 121 | 1,100 | 1,473 | 9,668 | 11 | 31 | 4,327 | 5,299 |
| Fayette | 897 | 1 | 19 | 387 | 490 | 2,997 | 8 | -12 | 1,323 | 1,678 |
| Franklin | 2,175 | 7 | 97 | 856 | 1,215 | 7,406 | 19 | 18 | 3,077 | 4,292 |
| Jefferson | 2,402 | 97 | 114 | 899 | 1,292 | 9,598 | 271 | 58 | 3,991 | 5,278 |
| Jennings | 2,615 | 4 | 102 | 1,092 | 1,417 | 9,405 | 13 | 23 | 4,273 | 5,096 |
| Ohio | 808 | 1 | 38 | 329 | 440 | 2,843 | 3 | 8 | 1,250 | 1,582 |
| Ripley | 2,202 | 58 | 99 | 808 | 1,237 | 8,791 | 164 | 59 | 3,552 | 5,016 |
| Switzerland | 2,414 | 5 | 64 | 925 | 1,420 | 9,774 | 8 | 22 | 4,181 | 5,563 |
| Union | 555 | 1 | 23 | 229 | 302 | 1,878 | 4 | 5 | 832 | 1,037 |
| Total | 16,767 | 179 | 677 | 6,625 | 9,286 | 62,360 | 501 | 212 | 26,806 | 34,841 |

[1/] International 1/4-inch rule.

(Table 66 continued on next page)

(Table 66 continued)

| Unit and county | Growing stock | | | | | Sawtimber | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All species | Pine | Other softwoods | Soft hardwoods | Hard hardwoods | All species | Pine | Other softwoods | Soft hardwoods | Hard hardwoods |
| | Thousand cubic feet | | | | | Thousand board feet[1] | | | | |
| Northern Unit | | | | | | | | | | |
| Adams | 462 | 7 | -- | 200 | 255 | 2,175 | 86 | -2 | 785 | 1,306 |
| Allen | 832 | 19 | 1 | 378 | 434 | 3,442 | 225 | -- | 1,209 | 2,008 |
| Bartholomew | 1,434 | 13 | 1 | 597 | 823 | 6,962 | 159 | -8 | 2,468 | 4,343 |
| Benton | 56 | 1 | -- | 24 | 31 | 253 | 12 | -- | 94 | 147 |
| Blackford | 310 | 1 | -- | 126 | 183 | 1,563 | 19 | -2 | 557 | 989 |
| Boone | 467 | 2 | -- | 193 | 272 | 2,191 | 24 | -3 | 776 | 1,394 |
| Carroll | 585 | 7 | -- | 250 | 328 | 2,726 | 92 | -3 | 983 | 1,654 |
| Cass | 788 | 20 | -- | 359 | 409 | 3,588 | 261 | -2 | 1,320 | 2,009 |
| Clinton | 292 | 1 | -- | 116 | 175 | 1,401 | 13 | -2 | 486 | 904 |
| Decatur | 796 | 4 | 1 | 322 | 469 | 3,891 | 62 | -5 | 1,377 | 2,457 |
| De Kalb | 901 | 25 | -- | 417 | 459 | 4,041 | 330 | -2 | 1,526 | 2,187 |
| Delaware | 496 | 11 | -- | 225 | 260 | 2,171 | 144 | -1 | 801 | 1,227 |
| Elkhart | 909 | 18 | 1 | 410 | 480 | 4,005 | 219 | -2 | 1,460 | 2,328 |
| Fountain | 1,236 | 31 | 1 | 560 | 644 | 5,711 | 412 | -4 | 2,125 | 3,178 |
| Fulton | 658 | 15 | -- | 294 | 349 | 3,022 | 189 | -2 | 1,105 | 1,730 |
| Grant | 625 | 8 | -- | 266 | 351 | 2,995 | 120 | -3 | 1,094 | 1,784 |
| Hamilton | 651 | 13 | 1 | 298 | 339 | 2,858 | 186 | -1 | 1,070 | 1,603 |
| Hancock | 392 | 11 | -- | 181 | 200 | 1,747 | 150 | -1 | 663 | 935 |
| Hendricks | 531 | 6 | -- | 225 | 300 | 2,482 | 62 | -3 | 872 | 1,551 |
| Henry | 648 | 11 | -- | 285 | 352 | 2,967 | 141 | -3 | 1,084 | 1,745 |
| Howard | 237 | 3 | -- | 104 | 130 | 964 | 39 | -- | 336 | 589 |
| Huntington | 709 | 19 | -- | 319 | 371 | 3,073 | 244 | -1 | 1,105 | 1,725 |
| Jasper | 834 | 15 | 1 | 370 | 448 | 3,741 | 173 | -2 | 1,343 | 2,227 |
| Jay | 793 | 3 | 1 | 319 | 470 | 3,989 | 43 | -6 | 1,406 | 2,546 |
| Johnson | 633 | 3 | 1 | 258 | 371 | 3,106 | 37 | -4 | 1,100 | 1,973 |
| Kosciusko | 1,092 | 6 | 1 | 444 | 641 | 5,469 | 83 | -7 | 1,933 | 3,460 |
| La Grange | 1,056 | 22 | -- | 484 | 550 | 4,591 | 274 | -3 | 1,724 | 2,596 |
| Lake | 589 | 11 | -- | 261 | 317 | 2,715 | 147 | -2 | 1,003 | 1,567 |
| La Porte | 1,282 | 19 | 1 | 567 | 695 | 5,767 | 228 | -4 | 2,088 | 3,455 |
| Madison | 432 | 5 | -- | 181 | 246 | 2,073 | 70 | -2 | 739 | 1,266 |
| Marion | 14 | -- | -- | 6 | 8 | 37 | -- | -- | 11 | 26 |
| Marshall | 959 | 20 | -- | 425 | 514 | 4,441 | 237 | -3 | 1,595 | 2,612 |
| Miami | 866 | 8 | 1 | 360 | 497 | 4,275 | 110 | -6 | 1,543 | 2,628 |
| Montgomery | 803 | 22 | 1 | 372 | 408 | 3,503 | 314 | -1 | 1,328 | 1,862 |
| Newton | 644 | 12 | -- | 283 | 349 | 3,059 | 176 | -3 | 1,143 | 1,743 |
| Noble | 1,016 | 24 | 1 | 463 | 528 | 4,480 | 322 | -2 | 1,656 | 2,504 |
| Porter | 959 | 21 | 1 | 440 | 497 | 4,174 | 278 | -2 | 1,578 | 2,320 |
| Pulaski | 879 | 20 | 1 | 396 | 462 | 3,978 | 260 | -2 | 1,463 | 2,257 |
| Randolph | 647 | 3 | -- | 258 | 386 | 3,155 | 42 | -4 | 1,105 | 2,012 |
| Rush | 341 | 8 | -- | 153 | 180 | 1,407 | 92 | -- | 497 | 818 |
| St. Joseph | 703 | 16 | 1 | 321 | 365 | 3,052 | 195 | -1 | 1,129 | 1,729 |
| Shelby | 425 | 4 | -- | 177 | 244 | 2,085 | 59 | -3 | 758 | 1,271 |
| Starke | 868 | 16 | 1 | 383 | 468 | 3,998 | 206 | -3 | 1,458 | 2,337 |
| Steuben | 981 | 24 | 1 | 450 | 506 | 4,270 | 316 | -2 | 1,597 | 2,359 |
| Tippecanoe | 738 | 22 | -- | 344 | 372 | 3,205 | 293 | -1 | 1,209 | 1,704 |
| Tipton | 128 | 3 | -- | 57 | 68 | 519 | 34 | -- | 187 | 298 |
| Wabash | 747 | 17 | -- | 341 | 389 | 3,262 | 216 | -2 | 1,224 | 1,824 |
| Warren | 761 | 12 | -- | 329 | 420 | 3,554 | 153 | -3 | 1,289 | 2,115 |
| Wayne | 995 | 21 | -- | 446 | 528 | 4,545 | 270 | -3 | 1,658 | 2,620 |
| Wells | 540 | 13 | -- | 246 | 281 | 2,393 | 180 | -1 | 902 | 1,312 |
| White | 392 | 10 | -- | 183 | 199 | 1,652 | 130 | -- | 619 | 903 |
| Whitley | 648 | 16 | -- | 295 | 337 | 2,938 | 203 | -2 | 1,077 | 1,660 |
| Total | 35,780 | 642 | 19 | 15,761 | 19,358 | 163,661 | 8,330 | -124 | 59,658 | 95,797 |
| All counties | 153,635 | 4,365 | 2,273 | 63,067 | 83,930 | 725,944 | 32,453 | 6,850 | 259,491 | 427,150 |

[1] International 1/4-inch rule.

Table 67.--Current annual timber removals from growing stock and sawtimber on timberland by species group, Indiana, 1966 and 1985

| Species group | Growing stock | | Sawtimber | |
|---|---|---|---|---|
| | 1966 | 1985 | 1966 | 1985 |
| | Thousand cubic feet | | Thousand board feet[1/] | |
| Softwoods | | | | |
| Pine | 142 | 184 | 297 | 826 |
| Baldcypress | 164 | -- | 607 | -- |
| Other softwoods | 94 | 119 | 96 | 231 |
| Total | 400 | 303 | 1,000 | 1,057 |
| Hardwoods | | | | |
| Select white oak | 7,056 | 12,310 | 37,744 | 61,583 |
| Other white oak | 1,193 | 2,700 | 6,315 | 12,740 |
| Select red oak | 5,998 | 9,976 | 33,206 | 51,242 |
| Other red oak | 10,442 | 17,035 | 53,589 | 86,148 |
| Hickory | 3,485 | 7,022 | 15,479 | 33,678 |
| Basswood | 753 | 935 | 4,837 | 4,452 |
| Beech | 3,588 | 3,426 | 18,252 | 17,612 |
| Hard maple | 5,238 | 5,437 | 31,517 | 25,614 |
| Soft maple | 4,613 | 3,150 | 21,838 | 15,098 |
| Elm | 675 | 888 | 4,014 | 3,929 |
| Ash | 3,500 | 7,781 | 18,886 | 36,840 |
| Sycamore | 2,988 | 3,242 | 16,870 | 16,304 |
| Cottonwood | 4,258 | 1,920 | 20,481 | 11,072 |
| Aspen | 253 | 285 | 1,131 | 1,078 |
| Sweetgum | 1,515 | 1,049 | 5,902 | 5,410 |
| Tupelo | 571 | 538 | 2,965 | 2,748 |
| Black cherry | 424 | 1,519 | 2,782 | 7,761 |
| Black walnut | 2,810 | 1,924 | 17,782 | 11,003 |
| Yellow-poplar | 3,902 | 9,663 | 24,625 | 50,667 |
| Other hardwoods | 1,238 | 1,722 | 5,822 | 6,174 |
| Total | 64,500 | 92,522 | 344,037 | 461,153 |
| All species | 64,900 | 92,825 | 345,037 | 462,210 |

[1/] International 1/4-inch rule.

Table 68.--Average annual timber removals from growing stock and sawtimber on timberland by county and species group, Indiana, 1966-1985

| Unit and county | Growing stock | | | | | Sawtimber | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All species | Pine | Other softwoods | Soft hardwoods | Hard hardwoods | All species | Pine | Other softwoods | Soft hardwoods | Hard hardwoods |
| | Thousand cubic feet | | | | | Thousand board feet[1] | | | | |
| Lower Wabash Unit | | | | | | | | | | |
| Clay | 811 | -- | -- | 220 | 591 | 3,553 | -- | -- | 892 | 2,661 |
| Daviess | 849 | -- | 84 | 264 | 501 | 3,757 | -- | 459 | 1,087 | 2,211 |
| Gibson | 1,001 | -- | 170 | 308 | 523 | 4,436 | -- | 918 | 1,236 | 2,282 |
| Greene | 1,471 | -- | -- | 475 | 996 | 6,411 | -- | -- | 1,983 | 4,428 |
| Knox | 757 | -- | 82 | 204 | 471 | 3,284 | -- | 444 | 767 | 2,073 |
| Martin | 2,587 | -- | 34 | 759 | 1,794 | 11,877 | -- | 183 | 3,319 | 8,375 |
| Parke | 1,843 | -- | 114 | 625 | 1,104 | 8,126 | -- | 612 | 2,720 | 4,794 |
| Pike | 1,292 | -- | 12 | 427 | 853 | 5,696 | -- | 61 | 1,890 | 3,745 |
| Posey | 1,551 | -- | 179 | 520 | 852 | 6,923 | -- | 963 | 2,167 | 3,793 |
| Putnam | 1,756 | -- | 19 | 404 | 1,333 | 8,012 | -- | 106 | 1,690 | 6,216 |
| Sullivan | 1,166 | -- | 71 | 387 | 708 | 5,125 | -- | 383 | 1,629 | 3,113 |
| Vanderburgh | 489 | -- | 3 | 128 | 358 | 1,954 | -- | 16 | 484 | 1,454 |
| Vermillion | 564 | -- | 3 | 168 | 393 | 2,467 | -- | 16 | 678 | 1,773 |
| Vigo | 797 | -- | 16 | 249 | 532 | 3,403 | -- | 92 | 1,026 | 2,285 |
| Total | 16,934 | -- | 787 | 5,138 | 11,009 | 75,024 | -- | 4,253 | 21,568 | 49,203 |
| Knobs Unit | | | | | | | | | | |
| Brown | 2,994 | 7 | 11 | 305 | 2,671 | 12,877 | 29 | 34 | 1,265 | 11,549 |
| Clark | 1,247 | 3 | 4 | 183 | 1,057 | 5,436 | 15 | 14 | 759 | 4,648 |
| Crawford | 2,412 | 4 | 5 | 271 | 2,132 | 9,645 | 16 | 18 | 1,081 | 8,530 |
| Dubois | 1,375 | 6 | 15 | 187 | 1,167 | 6,153 | 28 | 41 | 797 | 5,287 |
| Floyd | 777 | 35 | 17 | 87 | 638 | 3,483 | 186 | 18 | 388 | 2,891 |
| Harrison | 1,764 | 5 | 17 | 331 | 1,411 | 7,575 | 26 | 82 | 1,359 | 6,108 |
| Jackson | 1,940 | 2 | 6 | 262 | 1,670 | 7,986 | 9 | 24 | 1,067 | 6,886 |
| Lawrence | 2,330 | 6 | 11 | 240 | 2,073 | 9,744 | 30 | 25 | 966 | 8,723 |
| Monroe | 4,194 | 6 | 12 | 398 | 3,778 | 17,000 | 30 | 27 | 1,625 | 15,318 |
| Morgan | 1,271 | 2 | 6 | 230 | 1,033 | 5,317 | 10 | 21 | 949 | 4,337 |
| Orange | 2,063 | 3 | 6 | 285 | 1,769 | 8,297 | 12 | 24 | 1,135 | 7,126 |
| Owen | 1,570 | 9 | 28 | 224 | 1,309 | 7,013 | 41 | 43 | 979 | 5,950 |
| Perry | 2,968 | 7 | 5 | 274 | 2,682 | 11,895 | 13 | 19 | 1,105 | 10,758 |
| Scott | 651 | 1 | 3 | 94 | 553 | 2,874 | 5 | 16 | 388 | 2,465 |
| Spencer | 910 | 2 | 5 | 133 | 770 | 3,913 | 9 | 21 | 543 | 3,340 |
| Warrick | 1,023 | 4 | 4 | 176 | 839 | 4,356 | 16 | 16 | 734 | 3,590 |
| Washington | 1,811 | 9 | 40 | 268 | 1,494 | 7,998 | 44 | 75 | 1,172 | 6,707 |
| Total | 31,300 | 111 | 195 | 3,948 | 27,046 | 131,562 | 519 | 518 | 16,312 | 114,213 |
| Upland Flats Unit | | | | | | | | | | |
| Dearborn | 673 | -- | 7 | 262 | 404 | 3,222 | -- | -- | 1,294 | 1,928 |
| Fayette | 182 | -- | 6 | 62 | 114 | 814 | -- | -- | 277 | 537 |
| Franklin | 421 | -- | 10 | 115 | 296 | 1,904 | -- | -- | 511 | 1,393 |
| Jefferson | 750 | -- | 12 | 151 | 587 | 3,533 | -- | -- | 690 | 2,843 |
| Jennings | 682 | -- | 9 | 272 | 401 | 3,213 | -- | -- | 1,332 | 1,881 |
| Ohio | 188 | -- | 2 | 70 | 116 | 900 | -- | -- | 339 | 561 |
| Ripley | 730 | -- | 15 | 135 | 580 | 3,349 | -- | -- | 587 | 2,762 |
| Switzerland | 898 | -- | 4 | 284 | 610 | 4,354 | -- | -- | 1,399 | 2,955 |
| Union | 123 | -- | 5 | 40 | 78 | 536 | -- | -- | 179 | 357 |
| Total | 4,647 | -- | 70 | 1,391 | 3,186 | 21,825 | -- | -- | 6,608 | 15,217 |

(Table 68 continued on next page)

[1] International 1/4-inch rule.

(Table 68 continued)

| Unit and county | Growing stock | | | | | Sawtimber | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All species | Pine | Other softwoods | Soft hardwoods | Hard hardwoods | All species | Pine | Other softwoods | Soft hardwoods | Hard hardwoods |
| | Thousand cubic feet | | | | | Thousand board feet[1] | | | | |
| Northern Unit | | | | | | | | | | |
| Adams | 257 | -- | -- | 76 | 181 | 1,132 | -- | -- | 327 | 805 |
| Allen | 599 | 1 | -- | 218 | 380 | 2,596 | -- | -- | 905 | 1,691 |
| Bartholomew | 846 | -- | -- | 265 | 581 | 3,803 | -- | -- | 1,167 | 2,636 |
| Benton | 56 | -- | -- | 16 | 40 | 208 | -- | -- | 60 | 148 |
| Blackford | 190 | -- | -- | 59 | 131 | 857 | -- | -- | 262 | 595 |
| Boone | 335 | -- | -- | 107 | 228 | 1,490 | -- | -- | 469 | 1,021 |
| Carroll | 355 | -- | -- | 107 | 248 | 1,572 | -- | -- | 462 | 1,110 |
| Cass | 320 | 1 | -- | 91 | 228 | 1,363 | -- | -- | 366 | 997 |
| Clinton | 241 | -- | -- | 64 | 177 | 1,047 | -- | -- | 279 | 768 |
| Decatur | 549 | 1 | -- | 158 | 390 | 2,455 | -- | -- | 703 | 1,752 |
| De Kalb | 318 | 1 | -- | 91 | 226 | 1,345 | -- | -- | 359 | 986 |
| Delaware | 278 | -- | -- | 97 | 181 | 1,174 | -- | -- | 396 | 778 |
| Elkhart | 486 | 1 | -- | 130 | 355 | 2,128 | -- | -- | 533 | 1,595 |
| Fountain | 475 | 1 | -- | 138 | 336 | 2,064 | -- | -- | 566 | 1,498 |
| Fulton | 303 | -- | -- | 94 | 209 | 1,323 | -- | -- | 395 | 928 |
| Grant | 394 | -- | -- | 117 | 277 | 1,724 | -- | -- | 497 | 1,227 |
| Hamilton | 324 | -- | -- | 91 | 233 | 1,383 | -- | -- | 367 | 1,016 |
| Hancock | 160 | -- | -- | 48 | 112 | 660 | -- | -- | 183 | 477 |
| Hendricks | 320 | -- | -- | 99 | 221 | 1,414 | -- | -- | 430 | 984 |
| Henry | 351 | -- | -- | 107 | 244 | 1,513 | -- | -- | 447 | 1,066 |
| Howard | 235 | -- | -- | 90 | 145 | 1,022 | -- | -- | 384 | 638 |
| Huntington | 315 | 1 | -- | 107 | 207 | 1,339 | -- | -- | 434 | 905 |
| Jasper | 460 | -- | -- | 133 | 327 | 2,014 | -- | -- | 559 | 1,455 |
| Jay | 504 | -- | -- | 152 | 352 | 2,283 | -- | -- | 678 | 1,605 |
| Johnson | 400 | -- | -- | 126 | 274 | 1,801 | -- | -- | 557 | 1,244 |
| Kosciusko | 689 | 1 | -- | 212 | 476 | 3,107 | -- | -- | 941 | 2,166 |
| La Grange | 422 | 1 | -- | 122 | 299 | 1,789 | -- | -- | 492 | 1,297 |
| Lake | 425 | -- | -- | 127 | 298 | 1,768 | -- | -- | 498 | 1,270 |
| La Porte | 735 | 1 | -- | 202 | 532 | 3,232 | -- | -- | 850 | 2,382 |
| Madison | 311 | -- | -- | 91 | 220 | 1,344 | -- | -- | 386 | 958 |
| Marion | 463 | -- | -- | 146 | 317 | 1,928 | -- | -- | 554 | 1,374 |
| Marshall | 432 | -- | -- | 128 | 304 | 1,903 | -- | -- | 541 | 1,362 |
| Miami | 502 | -- | -- | 157 | 345 | 2,252 | -- | -- | 691 | 1,561 |
| Montgomery | 372 | 1 | -- | 129 | 242 | 1,566 | -- | -- | 518 | 1,048 |
| Newton | 316 | -- | -- | 99 | 217 | 1,364 | -- | -- | 415 | 949 |
| Noble | 476 | 1 | -- | 160 | 315 | 2,049 | -- | -- | 664 | 1,385 |
| Porter | 472 | 1 | -- | 133 | 338 | 1,958 | -- | -- | 520 | 1,438 |
| Pulaski | 405 | 1 | -- | 121 | 283 | 1,772 | -- | -- | 506 | 1,266 |
| Randolph | 487 | -- | -- | 129 | 358 | 2,161 | -- | -- | 570 | 1,591 |
| Rush | 227 | -- | -- | 82 | 145 | 977 | -- | -- | 346 | 631 |
| St. Joseph | 419 | 1 | -- | 114 | 304 | 1,777 | -- | -- | 449 | 1,328 |
| Shelby | 250 | -- | -- | 77 | 173 | 1,097 | -- | -- | 332 | 765 |
| Starke | 427 | -- | -- | 125 | 302 | 1,898 | -- | -- | 529 | 1,369 |
| Steuben | 445 | 1 | -- | 152 | 292 | 1,919 | -- | -- | 624 | 1,295 |
| Tippecanoe | 333 | 1 | -- | 111 | 221 | 1,387 | -- | -- | 439 | 948 |
| Tipton | 95 | -- | -- | 34 | 61 | 399 | -- | -- | 138 | 261 |
| Wabash | 340 | 1 | -- | 102 | 237 | 1,418 | -- | -- | 406 | 1,012 |
| Warren | 411 | -- | -- | 131 | 280 | 1,832 | -- | -- | 566 | 1,266 |
| Wayne | 471 | 1 | -- | 137 | 333 | 2,042 | -- | -- | 564 | 1,478 |
| Wells | 263 | -- | -- | 89 | 174 | 1,104 | -- | -- | 360 | 744 |
| White | 196 | -- | -- | 58 | 138 | 792 | -- | -- | 225 | 567 |
| Whitley | 254 | -- | -- | 71 | 183 | 1,085 | -- | -- | 286 | 799 |
| Total | 19,709 | 19 | -- | 6,020 | 13,670 | 85,630 | -- | -- | 25,195 | 60,435 |
| All counties | 72,590 | 130 | 1,052 | 16,497 | 54,911 | 314,041 | 519 | 4,771 | 69,683 | 239,068 |

[1] International 1/4-inch rule.

Table 69.--Average annual removals of growing stock on timberland by species group and Forest Survey Unit, Indiana, 1966-1985

(In thousand cubic feet per year)

| Species group | All Units | Forest Survey Unit | | | |
|---|---|---|---|---|---|
| | | Lower Wabash | Knobs | Upland Flats | Northern |
| Softwoods | | | | | |
| Shortleaf pine | 6 | -- | 6 | -- | -- |
| Other yellow pines | 124 | -- | 105 | -- | 19 |
| Baldcypress | 787 | 787 | -- | -- | -- |
| Eastern redcedar | 265 | -- | 195 | 70 | -- |
| Total | 1,182 | 787 | 306 | 70 | 19 |
| Hardwoods | | | | | |
| Select white oak | 13,618 | 2,191 | 7,439 | 932 | 3,056 |
| Other white oak | 3,007 | 142 | 2,712 | -- | 153 |
| Select red oak | 7,576 | 1,679 | 3,312 | 535 | 2,050 |
| Other red oak | 10,406 | 2,038 | 5,356 | 621 | 2,391 |
| Select hickory | 3,544 | 1,127 | 1,692 | 129 | 596 |
| Other hickory | 3,395 | 1,275 | 1,580 | 112 | 428 |
| Basswood | 679 | 19 | 136 | 13 | 511 |
| Beech | 1,486 | 50 | 714 | 289 | 433 |
| Hard maple | 4,589 | 836 | 2,019 | 220 | 1,514 |
| Soft maple | 2,685 | 1,202 | 410 | 342 | 731 |
| Elm | 1,348 | 413 | 419 | 25 | 491 |
| Ash | 4,724 | 875 | 1,502 | 289 | 2,058 |
| Sycamore | 2,224 | 778 | 546 | 37 | 863 |
| Cottonwood | 1,485 | 77 | 39 | 10 | 1,359 |
| Willow | 302 | 116 | 52 | -- | 134 |
| Hackberry | 499 | 33 | 74 | 24 | 368 |
| Aspen | 386 | 21 | 32 | 65 | 268 |
| Birch | 465 | 109 | 273 | -- | 83 |
| Sweetgum | 701 | 325 | 191 | 162 | 23 |
| Tupelo | 375 | 133 | 150 | 92 | -- |
| Black cherry | 1,115 | 230 | 301 | 104 | 480 |
| Black walnut | 1,600 | 384 | 321 | 53 | 842 |
| Butternut | 82 | 58 | 24 | -- | -- |
| Yellow-poplar | 3,813 | 1,486 | 1,194 | 497 | 636 |
| Persimmon | 58 | 27 | 31 | -- | -- |
| Sassafras | 615 | 198 | 294 | 20 | 103 |
| Other hardwoods | 631 | 325 | 181 | 6 | 119 |
| Total | 71,408 | 16,147 | 30,994 | 4,577 | 19,690 |
| All species | 72,590 | 16,934 | 31,300 | 4,647 | 19,709 |

Table 70.--Average annual removals of sawtimber on timberland by species group and Forest Survey Unit, Indiana, 1966-1985

(In thousand board feet per year)[1/]

| Species group | All Units | Forest Survey Unit | | | |
|---|---|---|---|---|---|
| | | Lower Wabash | Knobs | Upland Flats | Northern |
| Softwoods | | | | | |
| Shortleaf pine | -- | -- | -- | -- | -- |
| Other yellow pines | 519 | -- | 519 | -- | -- |
| Baldcypress | 4,253 | 4,253 | -- | -- | -- |
| Eastern redcedar | 518 | -- | 518 | -- | -- |
| Total | 5,290 | 4,253 | 1,037 | -- | -- |
| Hardwoods | | | | | |
| Select white oak | 61,606 | 9,836 | 32,619 | 4,668 | 14,483 |
| Other white oak | 12,500 | 655 | 11,150 | -- | 695 |
| Select red oak | 34,846 | 7,628 | 15,647 | 2,692 | 8,879 |
| Other red oak | 48,688 | 9,839 | 25,022 | 2,985 | 10,842 |
| Select hickory | 13,819 | 5,155 | 6,121 | 551 | 1,992 |
| Other hickory | 13,031 | 5,419 | 5,620 | 499 | 1,493 |
| Basswood | 3,066 | 99 | 640 | 71 | 2,256 |
| Beech | 6,873 | 256 | 3,081 | 1,385 | 2,151 |
| Hard maple | 18,650 | 3,251 | 7,250 | 945 | 7,204 |
| Soft maple | 11,185 | 5,055 | 1,670 | 1,567 | 2,893 |
| Elm | 4,346 | 1,357 | 1,404 | 63 | 1,522 |
| Ash | 19,564 | 3,805 | 5,352 | 1,303 | 9,104 |
| Sycamore | 10,474 | 3,705 | 2,535 | 144 | 4,090 |
| Cottonwood | 7,240 | 372 | 77 | 51 | 6,740 |
| Willow | 638 | 270 | 205 | -- | 163 |
| Hackberry | 2,138 | 101 | 330 | 123 | 1,584 |
| Aspen | 964 | 111 | -- | 337 | 516 |
| Birch | 1,936 | 554 | 1,219 | -- | 163 |
| Sweetgum | 3,230 | 1,603 | 821 | 721 | 85 |
| Tupelo | 1,688 | 575 | 632 | 481 | -- |
| Black cherry | 4,149 | 622 | 1,124 | 391 | 2,012 |
| Black walnut | 6,550 | 1,927 | 1,221 | 189 | 3,213 |
| Butternut | 199 | 199 | -- | -- | -- |
| Yellow-poplar | 18,258 | 6,988 | 5,881 | 2,554 | 2,835 |
| Persimmon | -- | -- | -- | -- | -- |
| Sassafras | 1,334 | 412 | 531 | 105 | 286 |
| Other hardwoods | 1,779 | 977 | 373 | -- | 429 |
| Total | 308,751 | 70,771 | 130,525 | 21,825 | 85,630 |
| All species | 314,041 | 75,024 | 131,562 | 21,825 | 85,630 |

[1/] International 1/4-inch rule.

Table 71.--Current annual timber removals from growing stock and sawtimber on timberland by item and species group, Indiana, 1985

GROWING STOCK

| Item | All species | Species group | | | | |
|---|---|---|---|---|---|---|
| | | Softwoods | Oak | Maple | Yellow-poplar | Other hardwoods |
| | Thousand cubic feet | | | | | |
| Roundwood products | | | | | | |
| Sawlogs | 55,317 | 155 | 25,357 | 5,160 | 6,677 | 17,968 |
| Veneer logs | 1,896 | 3 | 1,114 | 74 | 78 | 627 |
| Pulpwood [1] | 1,842 | -- | 620 | 232 | 247 | 743 |
| Fuelwood | 4,729 | 7 | 1,933 | 509 | 142 | 2,138 |
| Handle bolts | 1,069 | -- | -- | 158 | -- | 911 |
| Cooperage | 589 | -- | 589 | -- | -- | -- |
| Other | 254 | 14 | 13 | 50 | -- | 177 |
| Total | 65,696 | 179 | 29,626 | 6,183 | 7,144 | 22,564 |
| Logging residue | 17,640 | 11 | 7,943 | 1,594 | 2,102 | 5,990 |
| Other removals | 9,489 | 113 | 4,452 | 810 | 417 | 3,697 |
| All removals | 92,825 | 303 | 42,021 | 8,587 | 9,663 | 32,251 |

SAWTIMBER

| | Thousand board feet [2] | | | | | |
|---|---|---|---|---|---|---|
| Roundwood products | | | | | | |
| Sawlogs | 331,139 | 837 | 148,762 | 30,373 | 40,697 | 110,470 |
| Veneer logs | 13,807 | 21 | 8,152 | 548 | 565 | 4,521 |
| Pulpwood [1] | 8,023 | -- | 2,697 | 1,013 | 1,076 | 3,237 |
| Fuelwood | 14,624 | 27 | 5,927 | 1,582 | 399 | 6,689 |
| Handle bolts | 5,182 | -- | -- | 765 | -- | 4,417 |
| Cooperage | 3,545 | -- | 3,545 | -- | -- | -- |
| Other | 1,006 | 8 | 29 | 273 | -- | 696 |
| Total | 377,326 | 893 | 169,112 | 34,554 | 42,737 | 130,030 |
| Logging residue | 51,762 | 18 | 25,317 | 3,846 | 5,869 | 16,712 |
| Other removals | 33,122 | 146 | 17,284 | 2,312 | 2,061 | 11,319 |
| All removals | 462,210 | 1,057 | 211,713 | 40,712 | 50,667 | 158,061 |

[1] Includes particle board and waferboard bolts.

[2] International 1/4-inch rule.

Table 72.--Net annual growth and current annual timber removals from growing stock on timberland by species group and Forest Survey Unit, Indiana, 1985

(In thousand cubic feet)

| Species group | Growth | | | | | Removals | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All Units | Lower Wabash Unit | Knobs Unit | Upland Flats Unit | Northern Unit | All Units | Lower Wabash Unit | Knobs Unit | Upland Flats Unit | Northern Unit |
| Softwoods | | | | | | | | | | |
| Pine | 3,838 | 932 | 2,331 | 179 | 396 | 184 | 2 | 151 | 1/ | 31 |
| Baldcypress | 138 | 119 | 19 | -- | -- | -- | -- | -- | -- | -- |
| Eastern redcedar | 2,133 | 57 | 1,382 | 677 | 17 | 119 | 1 | 101 | 17 | -- |
| Other softwoods | 529 | -- | 281 | -- | 248 | -- | -- | -- | -- | -- |
| Total | 6,638 | 1,108 | 4,013 | 856 | 661 | 303 | 3 | 252 | 17 | 31 |
| Hardwoods | | | | | | | | | | |
| Select white oak | 15,350 | 2,735 | 8,369 | 1,479 | 2,767 | 12,310 | 2,804 | 5,191 | 796 | 3,519 |
| Other white oak | 2,425 | 83 | 2,334 | 1 | 7 | 2,700 | 162 | 2,306 | 12 | 220 |
| Select red oak | 8,276 | 1,686 | 3,386 | 830 | 2,374 | 9,976 | 2,089 | 4,366 | 726 | 2,795 |
| Other red oak | 14,388 | 3,316 | 7,257 | 968 | 2,847 | 17,035 | 3,836 | 9,200 | 744 | 3,255 |
| Select hickory | 5,583 | 1,354 | 1,937 | 640 | 1,652 | 3,397 | 1,101 | 1,320 | 106 | 870 |
| Other hickory | 6,402 | 1,548 | 2,511 | 952 | 1,391 | 3,625 | 1,142 | 1,800 | 162 | 521 |
| Basswood | 1,693 | 250 | 124 | 197 | 1,122 | 935 | 147 | 156 | 66 | 566 |
| Beech | 1,504 | 61 | 900 | 177 | 366 | 3,426 | 496 | 1,410 | 333 | 1,187 |
| Hard maple | 13,833 | 2,249 | 7,127 | 1,816 | 2,641 | 5,437 | 882 | 2,646 | 203 | 1,706 |
| Soft maple | 12,287 | 3,472 | 4,951 | 744 | 3,120 | 3,150 | 854 | 771 | 184 | 1,341 |
| Elm | 4,654 | 452 | 362 | 581 | 3,259 | 888 | 260 | 247 | 10 | 371 |
| Ash | 10,079 | 2,002 | 3,132 | 1,514 | 3,431 | 7,781 | 1,878 | 2,448 | 696 | 2,759 |
| Sycamore | 6,232 | 1,658 | 2,688 | 653 | 1,233 | 3,242 | 815 | 1,079 | 212 | 1,136 |
| Cottonwood | 3,789 | 972 | 478 | 99 | 2,240 | 1,920 | 508 | 304 | 160 | 948 |
| Aspen | 728 | 52 | 517 | 120 | 39 | 285 | 24 | 65 | 15 | 181 |
| Birch | 450 | 193 | 202 | -- | 55 | 332 | 41 | 221 | 19 | 51 |
| Sweetgum | 3,203 | 680 | 1,589 | 879 | 55 | 1,049 | 279 | 486 | 221 | 63 |
| Tupelo | 1,134 | 295 | 603 | 228 | 8 | 538 | 143 | 282 | 88 | 25 |
| Black cherry | 2,961 | 511 | 944 | 325 | 1,181 | 1,519 | 321 | 476 | 86 | 636 |
| Black walnut | 3,959 | 927 | 883 | 707 | 1,442 | 1,924 | 496 | 479 | 153 | 796 |
| Yellow-poplar | 20,032 | 4,918 | 10,946 | 2,171 | 1,997 | 9,663 | 2,816 | 5,192 | 604 | 1,051 |
| Other hardwoods | 8,035 | 1,620 | 3,693 | 830 | 1,892 | 1,390 | 359 | 282 | 68 | 681 |
| Total | 146,997 | 31,034 | 64,933 | 15,911 | 35,119 | 92,522 | 21,453 | 40,727 | 5,664 | 24,678 |
| All species | 153,635 | 32,142 | 68,946 | 16,767 | 35,780 | 92,825 | 21,456 | 40,979 | 5,681 | 24,709 |

1/ Less than 500 cubic feet.

Table 73.--Net annual growth and current annual timber removals from sawtimber on timberland by species group and Forest Survey Unit, Indiana, 1985

(In thousand board feet)[1/]

| Species group | Growth | | | | | Removals | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All Units | Lower Wabash Unit | Knobs Unit | Upland Flats Unit | Northern Unit | All Units | Lower Wabash Unit | Knobs Unit | Upland Flats Unit | Northern Unit |
| Softwoods | | | | | | | | | | |
| Pine | 28,868 | 5,028 | 18,343 | 501 | 4,996 | 826 | 14 | 721 | 2 | 89 |
| Baldcypress | 744 | 643 | 101 | -- | -- | -- | -- | -- | -- | -- |
| Eastern redcedar | 6,237 | -72 | 6,090 | 212 | 7 | 231 | 5 | 179 | 47 | -- |
| Other softwoods | 3,454 | -- | 251 | -- | 3,203 | -- | -- | -- | -- | -- |
| Total | 39,303 | 5,599 | 24,785 | 713 | 8,206 | 1,057 | 19 | 900 | 49 | 89 |
| Hardwoods | | | | | | | | | | |
| Select white oak | 79,020 | 12,302 | 48,329 | 5,639 | 12,750 | 61,583 | 14,125 | 25,305 | 4,208 | 17,945 |
| Other white oak | 13,109 | 742 | 12,192 | -24 | 199 | 12,740 | 695 | 10,908 | 47 | 1,090 |
| Select red oak | 50,361 | 8,458 | 17,443 | 4,365 | 20,095 | 51,242 | 10,702 | 22,166 | 3,947 | 14,427 |
| Other red oak | 77,947 | 17,130 | 41,071 | 3,870 | 15,876 | 86,148 | 19,477 | 47,087 | 3,798 | 15,786 |
| Select hickory | 28,196 | 9,622 | 8,735 | 3,547 | 6,292 | 16,538 | 5,522 | 6,408 | 533 | 4,075 |
| Other hickory | 35,440 | 11,171 | 16,989 | 3,185 | 4,095 | 17,140 | 5,633 | 8,213 | 788 | 2,506 |
| Basswood | 9,019 | 2,651 | 795 | 1,537 | 4,036 | 4,452 | 763 | 739 | 351 | 2,599 |
| Beech | 5,676 | 400 | 3,301 | 402 | 1,573 | 17,612 | 2,581 | 7,195 | 1,700 | 6,136 |
| Hard maple | 59,429 | 14,850 | 32,476 | 3,776 | 8,327 | 25,614 | 4,230 | 12,196 | 902 | 8,286 |
| Soft maple | 36,743 | 15,176 | 11,058 | 1,882 | 8,627 | 15,098 | 4,171 | 3,736 | 921 | 6,270 |
| Elm | 6,401 | 53 | 1,246 | 306 | 4,796 | 3,929 | 1,313 | 1,009 | 44 | 1,563 |
| Ash | 49,560 | 6,306 | 16,259 | 6,756 | 20,239 | 36,840 | 9,105 | 11,284 | 3,295 | 13,156 |
| Sycamore | 31,449 | 7,065 | 15,371 | 3,611 | 5,402 | 16,304 | 4,016 | 5,419 | 1,123 | 5,746 |
| Cottonwood | 19,464 | 4,536 | 2,651 | 395 | 11,882 | 11,072 | 2,949 | 1,660 | 943 | 5,520 |
| Aspen | 5,517 | -- | 4,602 | 370 | 545 | 1,078 | 127 | 271 | 81 | 599 |
| Birch | 1,262 | 426 | 798 | -- | 38 | 1,679 | 227 | 1,085 | 99 | 268 |
| Sweetgum | 11,577 | 1,331 | 6,916 | 3,221 | 109 | 5,410 | 1,397 | 2,558 | 1,162 | 293 |
| Tupelo | 5,201 | 435 | 3,678 | 1,031 | 57 | 2,748 | 711 | 1,436 | 462 | 139 |
| Black cherry | 16,699 | 1,724 | 8,857 | 1,311 | 4,807 | 7,761 | 1,673 | 2,464 | 453 | 3,171 |
| Black walnut | 19,928 | 6,405 | 6,323 | 3,021 | 4,179 | 11,003 | 2,993 | 2,865 | 987 | 4,158 |
| Yellow-poplar | 90,476 | 19,746 | 54,629 | 8,630 | 7,471 | 50,667 | 14,714 | 27,323 | 3,185 | 5,445 |
| Other hardwoods | 34,167 | 7,673 | 7,618 | 4,816 | 14,060 | 4,495 | 1,012 | 995 | 240 | 2,248 |
| Total | 686,641 | 148,202 | 321,337 | 61,647 | 155,455 | 461,153 | 108,136 | 202,322 | 29,269 | 121,426 |
| All species | 725,944 | 153,801 | 346,122 | 62,360 | 163,661 | 462,210 | 108,155 | 203,222 | 29,318 | 121,515 |

[1/] International 1/4-inch rule.

Table 74.--Net annual growth and current annual timber removals of growing stock on timberland by ownership class and species group, Indiana, 1985

(In thousand cubic feet)

| Ownership class | Growth | | | | | Removals | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All species | Pine | Other softwoods | Soft hardwoods | Hard hardwoods | All species | Pine | Other softwoods | Soft hardwoods | Hard hardwoods |
| National forest | 4,220 | -251 | 13 | 1,523 | 2,935 | 3,897 | 8 | -- | 221 | 3,668 |
| Miscellaneous federal | 5,889 | 5 | 11 | 2,423 | 3,450 | 407 | -- | -- | 40 | 367 |
| State | 7,106 | 570 | -5 | 2,284 | 4,257 | 1,701 | 4 | 8 | 262 | 1,427 |
| County and municipal | 947 | -- | 8 | 538 | 401 | 56 | 16 | -- | 28 | 12 |
| Forest industry | 538 | -- | -- | 95 | 443 | 1,103 | 1 | -- | 60 | 1,042 |
| Farmer and other private | 134,935 | 4,041 | 2,246 | 56,204 | 72,444 | 85,661 | 155 | 111 | 23,968 | 61,427 |
| All ownerships | 153,635 | 4,365 | 2,273 | 63,067 | 83,930 | 92,825 | 184 | 119 | 24,579 | 67,943 |

Table 75.--Net annual growth and current annual timber removals of sawtimber on timberland by ownership class and species group, Indiana, 1985

(In thousand board feet)[1/]

| Ownership class | Growth | | | | | Removals | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | All species | Pine | Other softwoods | Soft hardwoods | Hard hardwoods | All species | Pine | Other softwoods | Soft hardwoods | Hard hardwoods |
| National forest | 28,429 | 7,208 | 80 | 2,820 | 18,321 | 17,502 | 32 | -- | 957 | 16,513 |
| Miscellaneous federal | 27,214 | 25 | 16 | 10,652 | 16,521 | 2,001 | -- | -- | 214 | 1,787 |
| State | 27,323 | 2,006 | -176 | 7,301 | 18,192 | 8,265 | 24 | 36 | 1,244 | 6,961 |
| County and municipal | 4,613 | -- | -- | 2,400 | 2,213 | 20 | -- | -- | 14 | 6 |
| Forest industry | 2,772 | -- | -- | -222 | 2,994 | 5,876 | 6 | -- | 324 | 5,546 |
| Farmer and other private | 635,593 | 23,214 | 6,930 | 236,540 | 368,909 | 428,546 | 764 | 195 | 120,261 | 307,326 |
| All ownerships | 725,944 | 32,453 | 6,850 | 259,491 | 427,150 | 462,210 | 826 | 231 | 123,014 | 338,139 |

[1/] International 1/4-inch rule.

Table 76.--Annual mortality of growing stock and sawtimber on timberland by softwoods and hardwoods, Indiana, 1966 and 1985

| Species group | Growing stock | | Sawtimber | |
|---|---|---|---|---|
| | 1966[1] | 1985 | 1966[1] | 1985 |
| | Thousand cubic feet | | Thousand board feet[2] | |
| Softwoods | 207 | 2,180 | 176 | 4,532 |
| Hardwoods | 12,038 | 35,345 | 37,090 | 96,717 |
| All species | 12,245 | 37,525 | 37,266 | 101,249 |

[1] Figures have been adjusted from those published after the 1966 survey to conform to 1985 volumes because of changes in survey procedures.

[2] International 1/4-inch rule.

Table 77.--Annual mortality of growing stock and sawtimber on timberland by species group, Indiana, 1985

| Species group | Growing stock | Sawtimber |
|---|---|---|
| | Thousand cubic feet | Thousand board feet[1] |
| Softwoods | | |
| Jack pine | 42 | 160 |
| Red pine | 16 | 34 |
| White pine | 197 | 243 |
| Shortleaf pine | 812 | 931 |
| Other yellow pines | 531 | 1,215 |
| Tamarack | 46 | 249 |
| Baldcypress | 156 | 703 |
| Eastern redcedar | 329 | 988 |
| Other softwoods | 51 | 9 |
| Total | 2,180 | 4,532 |
| Hardwoods | | |
| Select white oak | 1,548 | 5,140 |
| Other white oak | 548 | 1,903 |
| Select red oak | 1,465 | 5,737 |
| Other red oak | 3,139 | 11,857 |
| Select hickory | 1,264 | 3,866 |
| Other hickory | 1,472 | 4,314 |
| Basswood | 509 | 1,278 |
| Beech | 515 | 1,945 |
| Hard maple | 2,022 | 5,302 |
| Soft maple | 2,237 | 6,757 |
| Elm | 4,275 | 9,453 |
| Ash | 2,195 | 5,561 |
| Sycamore | 1,761 | 6,902 |
| Cottonwood | 956 | 3,944 |
| Willow | 581 | 2,088 |
| Hackberry | 1,004 | 2,787 |
| Aspen | 739 | 1,598 |
| Birch | 94 | 45 |
| Sweetgum | 615 | 1,929 |
| Tupelo | 228 | 814 |
| Black cherry | 1,754 | 2,729 |
| Black walnut | 1,146 | 1,964 |
| Butternut | 135 | 454 |
| Yellow-poplar | 1,005 | 4,264 |
| Persimmon | 282 | 93 |
| Sassafras | 1,994 | 1,702 |
| Other hardwoods | 1,862 | 2,291 |
| Total | 35,345 | 96,717 |
| All species | 37,525 | 101,249 |

[1] International 1/4-inch rule.

Table 78.--Annual mortality of growing stock on timberland by species group and cause of death, Indiana, 1985

(In thousand cubic feet)

| Species group | All causes | Cause of death | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Insects | Disease | Fire | Animals | Weather | Suppression | Unknown and other |
| Softwoods | | | | | | | | |
| Jack pine | 42 | -- | -- | -- | -- | -- | -- | 42 |
| Red pine | 16 | -- | -- | -- | -- | -- | -- | 16 |
| White pine | 197 | -- | 8 | -- | -- | -- | 19 | 170 |
| Shortleaf pine | 812 | -- | -- | -- | -- | 25 | 57 | 730 |
| Other yellow pines | 531 | -- | -- | 15 | -- | 173 | -- | 343 |
| Tamarack | 46 | -- | -- | -- | -- | -- | -- | 46 |
| Baldcypress | 156 | -- | -- | -- | -- | -- | -- | 156 |
| Eastern redcedar | 329 | -- | -- | -- | -- | -- | 3 | 326 |
| Other softwoods | 51 | -- | -- | -- | -- | -- | -- | 51 |
| Total | 2,180 | -- | 8 | 15 | -- | 198 | 79 | 1,880 |
| Hardwoods | | | | | | | | |
| Select white oak | 1,548 | 1 | 86 | -- | -- | 11 | 25 | 1,425 |
| Other white oak | 548 | -- | 83 | 13 | -- | 77 | -- | 375 |
| Select red oak | 1,465 | -- | 116 | 57 | 10 | 74 | -- | 1,208 |
| Other red oak | 3,139 | 2 | 292 | 50 | -- | 331 | -- | 2,464 |
| Select hickory | 1,264 | -- | 22 | -- | -- | 60 | 1 | 1,181 |
| Other hickory | 1,472 | 10 | 111 | -- | -- | 70 | 1 | 1,280 |
| Basswood | 509 | -- | 46 | -- | -- | 162 | -- | 301 |
| Beech | 515 | -- | 1 | -- | -- | 53 | 9 | 452 |
| Hard maple | 2,022 | -- | 58 | -- | 2 | 131 | -- | 1,831 |
| Soft maple | 2,237 | 8 | 101 | -- | -- | 160 | 25 | 1,943 |
| Elm | 4,275 | 15 | 134 | -- | 22 | 141 | 29 | 3,934 |
| Ash | 2,195 | -- | 74 | 39 | 4 | 113 | 19 | 1,946 |
| Sycamore | 1,761 | -- | 78 | -- | -- | 137 | 2 | 1,544 |
| Cottonwood | 956 | -- | 6 | -- | -- | 231 | -- | 719 |
| Willow | 581 | -- | 8 | -- | -- | 30 | -- | 543 |
| Hackberry | 1,004 | -- | 77 | -- | -- | 51 | 87 | 789 |
| Aspen | 739 | -- | 100 | -- | -- | 31 | -- | 608 |
| Birch | 94 | -- | -- | -- | -- | -- | -- | 94 |
| Sweetgum | 615 | -- | 4 | -- | -- | 27 | 6 | 578 |
| Tupelo | 228 | -- | 18 | -- | -- | -- | -- | 210 |
| Black cherry | 1,754 | 70 | 77 | -- | -- | 28 | 77 | 1,502 |
| Black walnut | 1,146 | 2 | 108 | -- | -- | 2 | 54 | 980 |
| Butternut | 135 | -- | -- | -- | -- | 10 | -- | 125 |
| Yellow-poplar | 1,005 | 3 | 34 | -- | -- | 217 | -- | 751 |
| Persimmon | 282 | -- | -- | -- | -- | -- | -- | 282 |
| Sassafras | 1,994 | 6 | 232 | -- | -- | -- | 69 | 1,687 |
| Other hardwoods | 1,862 | -- | 118 | -- | -- | 14 | 24 | 1,706 |
| Total | 35,345 | 117 | 1,984 | 159 | 38 | 2,161 | 428 | 30,458 |
| All species | 37,525 | 117 | 1,992 | 174 | 38 | 2,359 | 507 | 32,338 |

Table 79.--Annual mortality of sawtimber on timberland by species group and cause of death, Indiana, 1985

(In thousand board feet)[1/]

| Species group | All causes | Cause of death | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Insects | Disease | Fire | Animals | Weather | Suppression | Unknown and other |
| Softwoods | | | | | | | | |
| Jack pine | 160 | -- | -- | -- | -- | -- | -- | 160 |
| Red pine | 34 | -- | -- | -- | -- | -- | -- | 34 |
| White pine | 243 | -- | -- | -- | -- | 61 | -- | 182 |
| Shortleaf pine | 931 | -- | -- | -- | -- | -- | -- | 931 |
| Other yellow pines | 1,215 | -- | -- | -- | -- | 486 | -- | 729 |
| Tamarack | 249 | -- | -- | -- | -- | -- | -- | 249 |
| Baldcypress | 703 | -- | -- | -- | -- | -- | -- | 703 |
| Eastern redcedar | 988 | -- | -- | -- | -- | -- | -- | 988 |
| Other softwoods | 9 | -- | -- | -- | -- | -- | -- | 9 |
| Total | 4,532 | -- | -- | -- | -- | 547 | -- | 3,985 |
| Hardwoods | | | | | | | | |
| Select white oak | 5,140 | 20 | 500 | -- | 4 | 2 | 4 | 4,610 |
| Other white oak | 1,903 | -- | 474 | -- | -- | 384 | -- | 1,045 |
| Select red oak | 5,737 | -- | 469 | 299 | -- | 357 | -- | 4,612 |
| Other red oak | 11,857 | 3 | 1,098 | 186 | -- | 1,433 | -- | 9,137 |
| Select hickory | 3,866 | -- | 10 | -- | -- | 296 | -- | 3,560 |
| Other hickory | 4,314 | -- | 260 | -- | -- | 402 | -- | 3,652 |
| Basswood | 1,278 | -- | 170 | -- | -- | 130 | -- | 978 |
| Beech | 1,945 | -- | 7 | -- | -- | 198 | 41 | 1,699 |
| Hard maple | 5,302 | -- | 213 | -- | 5 | 322 | -- | 4,762 |
| Soft maple | 6,757 | 35 | 396 | -- | -- | 420 | -- | 5,906 |
| Elm | 9,453 | 21 | 294 | -- | 49 | 480 | 42 | 8,567 |
| Ash | 5,561 | -- | 229 | 115 | 6 | 449 | -- | 4,762 |
| Sycamore | 6,902 | -- | 397 | -- | -- | 673 | -- | 5,832 |
| Cottonwood | 3,944 | -- | 27 | -- | -- | 1,039 | -- | 2,878 |
| Willow | 2,088 | -- | -- | -- | -- | 142 | -- | 1,946 |
| Hackberry | 2,787 | -- | 151 | -- | -- | 257 | -- | 2,379 |
| Aspen | 1,598 | -- | -- | -- | -- | -- | -- | 1,598 |
| Birch | 45 | -- | -- | -- | -- | -- | -- | 45 |
| Sweetgum | 1,929 | -- | 25 | -- | -- | 165 | -- | 1,739 |
| Tupelo | 814 | -- | 91 | -- | -- | -- | -- | 723 |
| Black cherry | 2,729 | 231 | 43 | -- | -- | 119 | 256 | 2,080 |
| Black walnut | 1,964 | 11 | 14 | -- | -- | 20 | -- | 1,919 |
| Butternut | 454 | -- | -- | -- | -- | 52 | -- | 402 |
| Yellow-poplar | 4,264 | 12 | 202 | -- | -- | 1,241 | -- | 2,809 |
| Persimmon | 93 | -- | -- | -- | -- | -- | -- | 93 |
| Sassafras | 1,702 | 20 | 155 | -- | -- | -- | -- | 1,527 |
| Other hardwoods | 2,291 | -- | 16 | -- | -- | 33 | -- | 2,242 |
| Total | 96,717 | 353 | 5,241 | 600 | 64 | 8,614 | 343 | 81,502 |
| All species | 101,249 | 353 | 5,241 | 600 | 64 | 9,161 | 343 | 85,487 |

[1/] International 1/4-inch rule.

Table 80.--Annual mortality of growing stock and sawtimber on timberland by ownership class and species group, Indiana, 1985

| Ownership class | Growing stock | | | Sawtimber | | |
|---|---|---|---|---|---|---|
| | All species | Softwoods | Hardwoods | All species | Softwoods | Hardwoods |
| | - - - - Thousand cubic feet - - - - | | | - - - Thousand board feet[1/] - - - | | |
| National forest | 1,769 | 693 | 1,076 | 3,241 | 766 | 2,475 |
| Miscellaneous federal | 1,368 | 21 | 1,347 | 3,909 | 5 | 3,904 |
| State | 1,903 | 279 | 1,624 | 5,552 | 823 | 4,729 |
| County and municipal | 418 | -- | 418 | 1,221 | -- | 1,221 |
| Forest industry | 194 | -- | 194 | 833 | -- | 833 |
| Farmer | 14,241 | 263 | 13,978 | 38,833 | 501 | 38,332 |
| Misc. private-corp. | 3,828 | 201 | 3,627 | 10,846 | 443 | 10,403 |
| Misc. private-indiv. | 13,804 | 723 | 13,081 | 36,814 | 1,994 | 34,820 |
| All owners | 37,525 | 2,180 | 35,345 | 101,249 | 4,532 | 96,717 |

[1/] International 1/4-inch rule.

Table 81.--Output of timber products by product, softwoods and hardwoods, and source of material, Indiana, 1984

| Product | Standard units | Total | | Roundwood products | | | | Plant byproducts | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Growing stock | | Non-growing stock | | | |
| | | No. of units | Thousand cubic feet | No. of units | Thousand cubic feet | No. of units | Thousand cubic feet | No. of units | Thousand cubic feet |
| Saw logs | | | | | | | | | |
| Softwoods | Thousand[1] | 847 | 155 | 847 | 155 | -- | -- | -- | -- |
| Hardwoods | board feet | 352,662 | 58,737 | 331,197 | 55,162 | 21,465 | 3,575 | -- | -- |
| Total | | 353,509 | 58,892 | 332,044 | 55,317 | 21,465 | 3,575 | -- | -- |
| Veneer logs | | | | | | | | | |
| Softwoods | Thousand[1] | 21 | 3 | 21 | 3 | -- | -- | -- | -- |
| Hardwoods | board feet | 14,156 | 1,945 | 13,778 | 1,893 | 378 | 52 | -- | -- |
| Total | | 14,177 | 1,948 | 13,799 | 1,896 | 378 | 52 | -- | -- |
| Pulpwood[2] | | | | | | | | | |
| Softwoods | Standard[3] | -- | -- | -- | -- | -- | -- | -- | -- |
| Hardwoods | cords | 205,900 | 16,266 | 23,318 | 1,842 | 12,014 | 949 | 170,568 | 13,475 |
| Total | | 205,900 | 16,266 | 23,318 | 1,842 | 12,014 | 949 | 170,568 | 13,475 |
| Fuelwood | | | | | | | | | |
| Softwoods | Standard[3] | 1,493 | 100 | 109 | 7 | 713 | 46 | 671 | 47 |
| Hardwoods | cords | 691,694 | 48,382 | 67,527 | 4,722 | 435,638 | 30,463 | 188,529 | 13,197 |
| Total | | 693,187 | 48,482 | 67,636 | 4,729 | 436,351 | 30,509 | 189,200 | 13,244 |
| Handle bolts | | | | | | | | | |
| Softwoods | Thousand[1] | -- | -- | -- | -- | -- | -- | -- | -- |
| Hardwoods | board feet | 7,422 | 1,203 | 6,595 | 1,069 | 827 | 134 | -- | -- |
| Total | | 7,422 | 1,203 | 6,595 | 1,069 | 827 | 134 | -- | -- |
| Cooperage | | | | | | | | | |
| Softwoods | Thousand[1] | -- | -- | -- | -- | -- | -- | -- | -- |
| Hardwoods | board feet | 3,949 | 650 | 3,578 | 589 | 371 | 61 | -- | -- |
| Total | | 3,949 | 650 | 3,578 | 589 | 371 | 61 | -- | -- |
| Other[4] | | | | | | | | | |
| Softwoods | Thousand | 30 | 30 | 14 | 14 | 6 | 6 | 10 | 10 |
| Hardwoods | cubic feet | 5,207 | 5,207 | 240 | 240 | 47 | 47 | 4,920 | 4,920 |
| Total | | 5,237 | 5,237 | 254 | 254 | 53 | 53 | 4,930 | 4,930 |
| All products | | | | | | | | | |
| Softwoods | Thousand | -- | 288 | -- | 179 | -- | 52 | -- | 57 |
| Hardwoods | cubic feet | -- | 132,390 | -- | 65,517 | -- | 35,281 | -- | 31,592 |
| Total | | -- | 132,678 | -- | 65,696 | -- | 35,333 | -- | 31,649 |

[1] International 1/4-inch rule.

[2] Includes roundwood and plant byproducts used for particleboard and waferboard.

[3] 128 cubic feet; includes wood, bark, and air space.

[4] Other (industrial production) includes cabin logs, charcoal wood, shingle bolts, pilings, etc.

Table 82.--Output of roundwood products by product softwoods and hardwoods, and source of material, Indiana, 1984

(In thousand cubic feet)

| Product and species group | All sources | Growing-stock trees | | | Rough and rotten trees | Salvable dead trees | Other sources |
|---|---|---|---|---|---|---|---|
| | | Total | Sawtimber | Poletimber | | | |
| Industrial products | | | | | | | |
| Saw logs | | | | | | | |
| Softwoods | 155 | 155 | 155 | -- | -- | -- | -- |
| Hardwoods | 58,737 | 55,162 | 55,162 | -- | 236 | 920 | 2,419 |
| Subtotal | 58,892 | 55,317 | 55,317 | -- | 236 | 920 | 2,419 |
| Veneer logs | | | | | | | |
| Softwoods | 3 | 3 | 3 | -- | -- | -- | -- |
| Hardwoods | 1,945 | 1,893 | 1,893 | -- | -- | -- | 52 |
| Subtotal | 1,948 | 1,896 | 1,896 | -- | -- | -- | 52 |
| Pulpwood[1/] | | | | | | | |
| Softwoods | -- | -- | -- | -- | -- | -- | -- |
| Hardwoods | 2,791 | 1,842 | 1,735 | 107 | 452 | 15 | 482 |
| Subtotal | 2,791 | 1,842 | 1,735 | 107 | 452 | 15 | 482 |
| Cooperage | | | | | | | |
| Softwoods | -- | -- | -- | -- | -- | -- | -- |
| Hardwoods | 650 | 589 | 589 | -- | 59 | -- | 2 |
| Subtotal | 650 | 589 | 589 | -- | 59 | -- | 2 |
| Piling | | | | | | | |
| Softwoods | -- | -- | -- | -- | -- | -- | -- |
| Hardwoods | 3 | 3 | 3 | -- | -- | -- | -- |
| Subtotal | 3 | 3 | 3 | -- | -- | -- | -- |
| Poles | | | | | | | |
| Softwoods | -- | -- | -- | -- | -- | -- | -- |
| Hardwoods | 13 | 13 | -- | 13 | -- | -- | -- |
| Subtotal | 13 | 13 | -- | 13 | -- | -- | -- |
| Handle bolts | | | | | | | |
| Softwoods | -- | -- | -- | -- | -- | -- | -- |
| Hardwoods | 1,203 | 1,069 | 824 | 245 | 134 | -- | -- |
| Subtotal | 1,203 | 1,069 | 824 | 245 | 134 | -- | -- |
| Posts (Round and split) | | | | | | | |
| Softwoods | 20 | 14 | 4 | 10 | -- | 1 | 5 |
| Hardwoods | 150 | 103 | 74 | 29 | 21 | 1 | 25 |
| Subtotal | 170 | 117 | 78 | 39 | 21 | 2 | 30 |
| Other | | | | | | | |
| Softwoods | -- | -- | -- | -- | -- | -- | -- |
| Hardwoods | 121 | 121 | 108 | 13 | -- | -- | -- |
| Subtotal | 121 | 121 | 108 | 13 | -- | -- | -- |
| All industrial products | | | | | | | |
| Softwoods | 178 | 172 | 162 | 10 | -- | 1 | 5 |
| Hardwoods | 65,613 | 60,795 | 60,388 | 407 | 902 | 936 | 2,980 |
| Total | 65,791 | 60,967 | 60,550 | 417 | 902 | 937 | 2,985 |
| Fuelwood | | | | | | | |
| Softwoods | 53 | 7 | 4 | 3 | 1 | 14 | 31 |
| Hardwoods | 35,185 | 4,722 | 2,829 | 1,893 | 959 | 9,691 | 19,813 |
| Total | 35,238 | 4,729 | 2,833 | 1,896 | 960 | 9,705 | 19,844 |
| All products | | | | | | | |
| Softwoods | 231 | 179 | 166 | 13 | 1 | 15 | 36 |
| Hardwoods | 100,798 | 65,517 | 63,217 | 2,300 | 1,861 | 10,627 | 22,793 |
| Total | 101,029 | 65,696 | 63,383 | 2,313 | 1,862 | 10,642 | 22,829 |

[1/] Includes particleboard and waferboard bolts.

Table 83.--Timber products from roundwood by species group and product, Indiana, 1984

| Species group | All products | Saw logs | | Veneer logs | | Pulpwood[1] | |
|---|---|---|---|---|---|---|---|
| | Thousand cubic feet | Thousand board feet[2] | Thousand cubic feet | Thousand board feet[2] | Thousand cubic feet | Standard cords[3] | Thousand cubic feet |
| Softwoods | | | | | | | |
| Pine | 162 | 613 | 106 | 21 | 3 | -- | -- |
| Baldcypress | 4/ | -- | -- | -- | -- | -- | -- |
| Eastern redcedar | 69 | 234 | 49 | -- | -- | -- | -- |
| Other softwoods | -- | -- | -- | -- | -- | -- | -- |
| Total | 231 | 847 | 155 | 21 | 3 | -- | -- |
| Hardwoods | | | | | | | |
| Select white oak | 14,086 | 41,751 | 7,064 | 4,362 | 596 | 5,264 | 417 |
| Other white oak | 1,958 | 5,801 | 982 | 606 | 83 | 732 | 58 |
| Select red oak | 10,213 | 41,560 | 7,032 | 1,165 | 159 | 2,149 | 170 |
| Other red oak | 17,694 | 71,992 | 12,182 | 2,019 | 276 | 3,722 | 295 |
| Select hickory | 4,364 | 12,539 | 2,059 | 205 | 28 | 1,953 | 154 |
| Other hickory | 4,709 | 13,529 | 2,222 | 221 | 30 | 2,108 | 166 |
| Basswood | 1,069 | 3,416 | 562 | 16 | 2 | 515 | 40 |
| Beech | 3,744 | 14,532 | 2,388 | 116 | 16 | 1,009 | 78 |
| Hard maple | 6,236 | 19,969 | 3,401 | 234 | 32 | 2,146 | 170 |
| Soft maple | 3,935 | 11,999 | 2,045 | 314 | 42 | 2,311 | 182 |
| Elm | 1,405 | 2,464 | 403 | 19 | 2 | 213 | 17 |
| Ash | 7,993 | 24,599 | 4,043 | 461 | 64 | 1,337 | 106 |
| Sycamore | 3,648 | 11,922 | 1,958 | 330 | 45 | 3,692 | 294 |
| Cottonwood | 2,170 | 9,358 | 1,453 | 383 | 52 | 762 | 59 |
| Aspen | 188 | 794 | 129 | -- | -- | -- | -- |
| Birch | 174 | 674 | 110 | 14 | 2 | -- | -- |
| Sweetgum | 1,120 | 4,556 | 750 | 111 | 15 | 596 | 46 |
| Tupelo | 647 | 2,024 | 334 | 54 | 7 | 887 | 70 |
| Black cherry | 1,467 | 6,543 | 1,074 | 34 | 4 | 879 | 68 |
| Black walnut | 1,891 | 8,845 | 1,354 | 2,889 | 407 | -- | -- |
| Yellow-poplar | 8,224 | 42,749 | 7,021 | 565 | 78 | 4,737 | 376 |
| Other hardwoods | 3,863 | 1,046 | 171 | 38 | 5 | 320 | 25 |
| Total | 100,798 | 352,662 | 58,737 | 14,156 | 1,945 | 35,332 | 2,791 |
| All species | 101,029 | 353,509 | 58,892 | 14,177 | 1,948 | 35,332 | 2,791 |

(Table 83 continued on next page)

1/ Includes particleboard and waferboard bolts.

2/ International 1/4-inch rule.

3/ 128 cubic feet; includes wood, bark, and air space.

4/ Less than 500 cubic feet.

(Table 83 continued)

| Species group | Fuelwood | | Handle Bolts | | Cooperage | | Other products |
|---|---|---|---|---|---|---|---|
| | Standard cords [3] | Thousand cubic feet | Thousand board feet [2] | Thousand cubic feet | Thousand board feet [2] | Thousand cubic feet | Thousand cubic feet |
| Softwoods | | | | | | | |
| Pine | 782 | 50 | -- | -- | -- | -- | 3 |
| Baldcypress | -- | -- | -- | -- | -- | -- | [4] |
| Eastern redcedar | 40 | 3 | -- | -- | -- | -- | 17 |
| Other softwoods | -- | -- | -- | -- | -- | -- | -- |
| Total | 822 | 53 | -- | -- | -- | -- | 20 |
| Hardwoods | | | | | | | |
| Select white oak | 77,609 | 5,432 | -- | -- | 3,467 | 571 | 6 |
| Other white oak | 10,784 | 755 | -- | -- | 482 | 79 | 1 |
| Select red oak | 40,705 | 2,850 | -- | -- | -- | -- | 2 |
| Other red oak | 70,512 | 4,937 | -- | -- | -- | -- | 4 |
| Select hickory | 29,984 | 2,096 | 156 | 25 | -- | -- | 2 |
| Other hickory | 32,353 | 2,261 | 169 | 27 | -- | -- | 3 |
| Basswood | 6,659 | 465 | -- | -- | -- | -- | -- |
| Beech | 18,007 | 1,262 | -- | -- | -- | -- | -- |
| Hard maple | 35,110 | 2,455 | 1,095 | 178 | -- | -- | -- |
| Soft maple | 23,106 | 1,616 | -- | -- | -- | -- | 50 |
| Elm | 14,091 | 983 | -- | -- | -- | -- | -- |
| Ash | 40,039 | 2,801 | 6,002 | 973 | -- | -- | 6 |
| Sycamore | 19,236 | 1,345 | -- | -- | -- | -- | 6 |
| Cottonwood | 7,938 | 553 | -- | -- | -- | -- | 53 |
| Aspen | 907 | 59 | -- | -- | -- | -- | -- |
| Birch | 873 | 56 | -- | -- | -- | -- | 6 |
| Sweetgum | 4,459 | 308 | -- | -- | -- | -- | 1 |
| Tupelo | 3,370 | 236 | -- | -- | -- | -- | -- |
| Black cherry | 4,618 | 321 | -- | -- | -- | -- | -- |
| Black walnut | 1,875 | 130 | -- | -- | -- | -- | -- |
| Yellow-poplar | 10,670 | 749 | -- | -- | -- | -- | -- |
| Other hardwoods | 50,260 | 3,515 | -- | -- | -- | -- | 147 |
| Total | 503,165 | 35,185 | 7,422 | 1,203 | 3,949 | 650 | 287 |
| All species | 503,987 | 35,238 | 7,422 | 1,203 | 3,949 | 650 | 307 |

[2] International 1/4-inch rule.

[3] 128 cubic feet; includes wood, bark, and air space.

[4] Less than 500 cubic feet.

Table 84.--Volume of primary plant residue by use and type of residue, Indiana, 1984

(In thousand cubic feet)

| Use | Wood residue | | | | | | Bark | |
|---|---|---|---|---|---|---|---|---|
| | Total | | Coarse[1] | | Fine[2] | | | |
| | Softwoods | Hardwoods | Softwoods | Hardwoods | Softwoods | Hardwoods | Softwoods | Hardwoods |
| Fiber products[3] | 7.7 | 11,983.1 | 5.8 | 11,526.9 | 1.9 | 456.2 | -- | 54.3 |
| Charcoal | -- | 19.4 | -- | -- | -- | 19.4 | -- | -- |
| Industrial fuel | 28.2 | 7,013.0 | 11.0 | 1,326.7 | 17.2 | 5,686.3 | 13.9 | 4,287.8 |
| Domestic fuel | 19.2 | 6,183.9 | 19.2 | 5,821.5 | -- | 362.4 | 10.0 | 3,275.9 |
| Miscellaneous[4] | 9.7 | 4,901.2 | -- | 320.2 | 9.7 | 4,581.0 | 0.1 | 4,902.9 |
| Not used[5] | 24.0 | 2,980.3 | 14.7 | 1,114.0 | 9.3 | 1,866.3 | 9.9 | 1,354.8 |
| Total | 88.8 | 33,080.9 | 50.7 | 20,109.3 | 38.1 | 12,971.6 | 33.9 | 13,875.7 |

[1] Suitable for chipping such as slabs, edgings, veneer cores, etc.

[2] Not suitable for chipping such as sawdust, veneer clippings, etc.

[3] For manufacture of pulp, hardboard, or roofing felt.

[4] Livestock bedding, mulch, small dimension, and specialty items.

[5] Includes residue burned as waste.

Table 85.--All live above-ground tree biomass yields on timberland by species group and forest type, Indiana, 1986

(In pounds per acre)

| Species group | Forest type | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Jack-red-white pine | Short-leaf pine | Scotch-Virginia pine | Oak-pine | Oak-hickory | Chestnut-scarlet oak | Sassafras-persimmon | Oak-gum | Lowland oak | Elm-ash-soft maple | Cotton-wood | Maple-beech | Cherry-ash-yellow-poplar | Non-stocked |
| Softwoods | | | | | | | | | | | | | | |
| Jack pine | 5,408 | -- | 117 | 89 | 32 | -- | -- | -- | -- | 19 | 367 | -- | 116 | -- |
| Red pine | 6,521 | -- | -- | -- | 56 | -- | -- | 311 | -- | 8 | -- | -- | -- | -- |
| White pine | 45,578 | 37 | 1,506 | 1,761 | 108 | -- | -- | -- | -- | 92 | -- | 6 | 165 | -- |
| Shortleaf pine | 7,856 | 62,868 | 2,507 | 590 | 127 | -- | -- | -- | -- | 87 | -- | 2 | 65 | -- |
| Other yellow pines | 3,581 | 2,741 | 26,115 | 7,207 | 170 | -- | 1,443 | 327 | -- | 135 | 3,260 | 194 | 61 | -- |
| Tamarack | -- | -- | -- | -- | -- | -- | -- | -- | -- | 141 | -- | -- | -- | -- |
| Baldcypress | -- | -- | -- | -- | -- | -- | -- | 1,905 | -- | 837 | -- | -- | -- | -- |
| Eastern redcedar | 704 | 987 | 11,532 | 29,988 | 835 | 235 | 31 | 540 | -- | 494 | -- | 545 | 1,131 | -- |
| Other softwoods | 8 | -- | 11,420 | -- | 3 | -- | -- | 542 | -- | 32 | -- | 16 | 90 | -- |
| Total | 69,656 | 66,633 | 53,197 | 39,635 | 1,331 | 235 | 1,474 | 3,625 | -- | 1,845 | 3,627 | 763 | 1,628 | -- |
| Hardwoods | | | | | | | | | | | | | | |
| Select white oak | 1,954 | 4 | 2,186 | 5,787 | 39,453 | 24,324 | 2,301 | 7,235 | 29,623 | 4,880 | -- | 8,564 | 7,638 | 7,428 |
| Other white oak | -- | 583 | 25 | 2,726 | 4,729 | 114,745 | 697 | 717 | 2,277 | 41 | -- | 840 | 322 | -- |
| Select red oak | 1,057 | 4,576 | 267 | 2,851 | 14,746 | 3,309 | -- | 3,114 | 1,043 | 1,739 | 248 | 8,042 | 6,019 | -- |
| Other red oak | 360 | 1,272 | 6,124 | 11,207 | 30,443 | 30,070 | 4,103 | 15,378 | 74,837 | 5,755 | 885 | 4,593 | 5,012 | 5,050 |
| Select hickory | 1,474 | 5,549 | 861 | 4,308 | 14,575 | 2,845 | -- | 5,840 | 4,871 | 3,373 | -- | 6,124 | 3,759 | 1,767 |
| Other hickory | 1,222 | 802 | 10 | 5,978 | 14,014 | 6,334 | -- | 821 | 3,179 | 2,215 | -- | 7,115 | 6,490 | -- |
| Basswood | -- | -- | -- | 1,409 | 854 | 409 | -- | -- | 737 | 1,302 | -- | 3,814 | 1,002 | -- |
| Beech | -- | 196 | 24 | 592 | 3,321 | 1,306 | -- | 1,876 | -- | 894 | -- | 19,163 | 3,517 | -- |
| Hard maple | 1,434 | 7,791 | 1,161 | 6,951 | 9,664 | 9,240 | 7,588 | 1,751 | 1,290 | 4,298 | -- | 42,645 | 11,563 | -- |
| Soft maple | 5,397 | 1,399 | 1,513 | 1,038 | 2,049 | 1,970 | -- | 18,236 | 5,098 | 24,493 | 18,233 | 6,122 | 3,425 | 4,192 |
| Elm | 3,411 | 929 | 1,155 | 3,350 | 3,374 | 228 | 45 | 2,671 | 7,999 | 12,365 | -- | 7,255 | 8,611 | 1,374 |
| Ash | 4,115 | 9,558 | 1,797 | 7,002 | 5,341 | 27 | 312 | 5,802 | 9,229 | 12,717 | 798 | 7,438 | 21,758 | 3,521 |
| Sycamore | 3,806 | 1,353 | 3,881 | 1,120 | 1,674 | -- | -- | 7,923 | 262 | 13,219 | 7,895 | 3,945 | 6,206 | 3,615 |
| Cottonwood | 5,762 | -- | 11,226 | -- | 248 | -- | -- | -- | 1,593 | 9,625 | 103,477 | 344 | 517 | 2,800 |
| Willow | -- | -- | 11 | -- | 82 | -- | -- | -- | -- | 2,794 | 3,166 | 110 | 178 | 895 |
| Hackberry | -- | 297 | -- | 186 | 391 | -- | -- | 9 | 73 | 4,366 | -- | 1,355 | 1,871 | 479 |
| Aspen | -- | -- | -- | -- | 952 | 848 | -- | 888 | 21 | 259 | -- | 439 | 1,240 | -- |
| Birch | 209 | 1,231 | 980 | -- | 78 | -- | -- | 2,123 | -- | 1,390 | -- | 5 | 76 | -- |
| Sweetgum | 1,085 | -- | 20 | 1,485 | 650 | -- | -- | 47,146 | 7,140 | 2,345 | -- | 929 | 1,075 | -- |
| Tupelo | 217 | 327 | 745 | 2,945 | 1,566 | 844 | 2,595 | 8,507 | 5,814 | 834 | -- | 1,537 | 955 | -- |
| Black cherry | 4,492 | 2,638 | 2,497 | 2,387 | 2,167 | 2,484 | 157 | 893 | 5,160 | 2,793 | 669 | 4,032 | 6,701 | 1,928 |
| Black walnut | -- | -- | 196 | 2,977 | 2,032 | -- | 335 | 1,371 | 553 | 4,283 | -- | 3,215 | 8,784 | -- |
| Butternut | -- | -- | -- | -- | 7 | -- | -- | -- | -- | 110 | -- | 324 | 23 | -- |
| Yellow-poplar | 3,214 | 23,502 | 2,381 | 6,955 | 5,721 | 6 | 5,091 | 7,634 | -- | 4,103 | 581 | 9,169 | 27,455 | 53 |
| Persimmon | 147 | -- | 1,275 | 472 | 406 | -- | 984 | 1,356 | -- | 326 | -- | 477 | 170 | -- |
| Sassafras | 1,325 | 11,358 | 1,900 | 2,909 | 3,732 | 1,570 | 24,992 | 5,183 | 2,786 | 2,669 | 483 | 3,871 | 4,132 | -- |
| Other hardwoods | 533 | 3,817 | 4,390 | 5,052 | 3,159 | 1,160 | 854 | 3,935 | 683 | 9,354 | 3,303 | 4,630 | 4,572 | 11,152 |
| Noncommercial spp. | 1,937 | 666 | 445 | 2,035 | 1,864 | 239 | -- | 1,433 | 248 | 2,715 | 186 | 2,808 | 2,153 | 13,200 |
| Total | 43,151 | 77,848 | 45,070 | 81,722 | 167,292 | 201,958 | 50,054 | 151,842 | 164,516 | 135,257 | 139,924 | 158,905 | 145,224 | 57,454 |
| All species | 112,807 | 144,481 | 98,267 | 121,357 | 168,623 | 202,193 | 51,528 | 155,467 | 164,516 | 137,102 | 143,551 | 159,668 | 146,852 | 57,454 |

Table 86.--All live tree biomass on timberland by species group and forest type, Indiana, 1986

(In green tons)

| Species group | All types | Forest type | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Jack-red-white pine | Shortleaf pine | Scotch-Virginia pine | Oak-pine | Oak-hickory | Chestnut-scarlet oak | Sassafras-persimmon |
| Softwoods | | | | | | | | |
| Jack pine | 227,313 | 147,906 | -- | 4,131 | 4,624 | 21,825 | -- | -- |
| Red pine | 228,049 | 178,336 | -- | -- | -- | 38,171 | -- | -- |
| White pine | 1,560,109 | 1,246,546 | 447 | 53,160 | 91,734 | 73,682 | -- | -- |
| Shortleaf pine | 1,230,559 | 214,856 | 751,276 | 88,511 | 30,745 | 86,712 | -- | -- |
| Other yellow pines | 1,768,840 | 97,946 | 32,749 | 921,862 | 375,489 | 116,261 | -- | 14,290 |
| Tamarack | 58,668 | -- | -- | -- | -- | -- | -- | -- |
| Baldcypress | 396,597 | -- | -- | -- | -- | -- | -- | -- |
| Eastern redcedar | 3,433,201 | 19,250 | 11,800 | 407,084 | 1,562,383 | 572,359 | 5,410 | 306 |
| Other softwoods | 469,673 | 210 | -- | 403,140 | -- | 1,954 | -- | -- |
| Total | 9,373,009 | 1,905,050 | 796,272 | 1,877,888 | 2,064,975 | 910,964 | 5,410 | 14,596 |
| Hardwoods | | | | | | | | |
| Select white oak | 37,573,334 | 53,455 | 44 | 77,178 | 301,520 | 27,040,923 | 560,659 | 22,778 |
| Other white oak | 6,631,031 | -- | 6,966 | 899 | 142,008 | 3,241,047 | 2,644,865 | 6,902 |
| Select red oak | 17,158,051 | 28,900 | 54,687 | 9,442 | 148,526 | 10,106,626 | 76,270 | -- |
| Other red oak | 30,366,402 | 9,841 | 15,205 | 216,165 | 583,871 | 20,865,569 | 693,110 | 40,619 |
| Select hickory | 16,314,212 | 40,323 | 66,311 | 30,405 | 224,424 | 9,989,676 | 65,576 | -- |
| Other hickory | 16,705,280 | 33,410 | 9,580 | 368 | 311,438 | 9,604,995 | 146,007 | -- |
| Basswood | 3,423,210 | -- | -- | -- | 73,427 | 585,298 | 9,420 | -- |
| Beech | 13,336,226 | -- | 2,339 | 832 | 30,860 | 2,276,099 | 30,106 | -- |
| Hard maple | 34,045,942 | 39,207 | 93,103 | 40,968 | 362,165 | 6,623,953 | 212,992 | 75,119 |
| Soft maple | 16,820,474 | 147,621 | 16,723 | 53,396 | 54,057 | 1,404,695 | 45,397 | -- |
| Elm | 14,359,453 | 93,283 | 11,097 | 40,785 | 174,525 | 2,312,744 | 5,263 | 448 |
| Ash | 20,693,753 | 112,545 | 114,214 | 63,423 | 364,816 | 3,661,000 | 621 | 3,091 |
| Sycamore | 11,262,692 | 104,089 | 16,173 | 137,002 | 58,345 | 1,147,523 | -- | -- |
| Cottonwood | 6,091,407 | 157,591 | -- | 396,268 | -- | 169,983 | -- | -- |
| Willow | 1,375,575 | -- | -- | 392 | -- | 55,890 | -- | -- |
| Hackberry | 3,379,454 | -- | 3,551 | -- | 9,667 | 268,159 | -- | -- |
| Aspen | 1,421,627 | -- | -- | -- | -- | 652,541 | 19,542 | -- |
| Birch | 767,662 | 5,710 | 14,710 | 34,591 | -- | 53,571 | -- | -- |
| Sweetgum | 3,662,670 | 29,671 | -- | 713 | 77,358 | 445,620 | -- | -- |
| Tupelo | 3,030,861 | 5,946 | 3,905 | 26,293 | 153,454 | 1,073,205 | 19,459 | 25,692 |
| Black cherry | 7,378,323 | 122,861 | 31,519 | 88,150 | 124,379 | 1,485,236 | 57,262 | 1,558 |
| Black walnut | 7,813,803 | -- | -- | 6,924 | 155,119 | 1,392,820 | -- | 3,319 |
| Butternut | 217,724 | -- | -- | -- | -- | 5,099 | -- | -- |
| Yellow-poplar | 20,117,950 | 87,912 | 280,848 | 84,051 | 362,366 | 3,921,082 | 141 | 50,397 |
| Persimmon | 822,557 | 4,024 | -- | 44,990 | 24,577 | 278,454 | -- | 9,742 |
| Sassafras | 7,768,847 | 36,239 | 135,723 | 67,074 | 151,567 | 2,557,795 | 36,180 | 247,423 |
| Other hardwoods | 10,694,649 | 14,586 | 45,619 | 154,955 | 263,217 | 2,165,018 | 26,747 | 8,454 |
| Noncommercial spp. | 4,984,080 | 52,990 | 7,961 | 15,691 | 106,028 | 1,277,553 | 5,509 | -- |
| Total | 318,217,249 | 1,180,204 | 930,278 | 1,590,955 | 4,257,714 | 114,662,174 | 4,655,126 | 495,542 |
| All species | 327,590,258 | 3,085,254 | 1,726,550 | 3,468,843 | 6,322,689 | 115,573,138 | 4,660,536 | 510,138 |

(Table 86 continued on next page)

(Table 86 continued)

| Species group | Forest type | | | | | | |
|---|---|---|---|---|---|---|---|
| | Oak-gum | Lowland oak | Elm-ash-soft maple | Cotton-wood | Maple-beech | Cherry-ash-yellow-poplar | Non-stocked |
| Softwoods | | | | | | | |
| Jack pine | -- | -- | 7,810 | 3,378 | -- | 37,639 | -- |
| Red pine | 8,045 | -- | 3,497 | -- | -- | -- | -- |
| White pine | -- | -- | 38,195 | -- | 2,871 | 53,474 | -- |
| Shortleaf pine | -- | -- | 36,149 | -- | 1,199 | 21,111 | -- |
| Other yellow pines | 8,456 | -- | 56,253 | 29,992 | 95,739 | 19,803 | -- |
| Tamarack | -- | -- | 58,668 | -- | -- | -- | -- |
| Baldcypress | 49,236 | -- | 347,361 | -- | -- | -- | -- |
| Eastern redcedar | 13,949 | -- | 205,277 | -- | 268,256 | 367,127 | -- |
| Other softwoods | 14,013 | -- | 13,101 | -- | 8,034 | 29,221 | -- |
| Total | 93,699 | -- | 766,311 | 33,370 | 376,099 | 528,375 | -- |
| Hardwoods | | | | | | | |
| Select white oak | 187,025 | 457,678 | 2,026,460 | -- | 4,216,552 | 2,478,646 | 150,416 |
| Other white oak | 18,545 | 35,181 | 16,822 | -- | 413,413 | 104,383 | -- |
| Select red oak | 80,506 | 16,108 | 722,141 | 2,285 | 3,959,294 | 1,953,266 | -- |
| Other red oak | 397,516 | 1,156,237 | 2,389,821 | 8,143 | 2,261,600 | 1,626,445 | 102,260 |
| Select hickory | 150,969 | 75,260 | 1,400,445 | -- | 3,015,172 | 1,219,861 | 35,790 |
| Other hickory | 21,229 | 49,114 | 919,960 | -- | 3,503,239 | 2,105,940 | -- |
| Basswood | -- | 11,381 | 540,752 | -- | 1,877,838 | 325,094 | -- |
| Beech | 48,496 | -- | 371,225 | -- | 9,434,995 | 1,141,274 | -- |
| Hard maple | 45,260 | 19,936 | 1,784,790 | -- | 20,996,312 | 3,752,137 | -- |
| Soft maple | 471,390 | 78,771 | 10,170,578 | 167,741 | 3,013,951 | 1,111,261 | 84,893 |
| Elm | 69,050 | 123,582 | 5,134,477 | -- | 3,571,964 | 2,794,413 | 27,822 |
| Ash | 149,976 | 142,593 | 5,280,579 | 7,338 | 3,661,859 | 7,060,407 | 71,291 |
| Sycamore | 204,808 | 4,046 | 5,489,062 | 72,633 | 1,942,124 | 2,013,693 | 73,194 |
| Cottonwood | -- | 24,607 | 3,996,921 | 951,986 | 169,541 | 167,806 | 56,704 |
| Willow | -- | -- | 1,160,043 | 29,128 | 54,222 | 57,775 | 18,125 |
| Hackberry | 222 | 1,135 | 1,812,925 | -- | 666,920 | 607,177 | 9,698 |
| Aspen | 22,945 | 319 | 107,753 | -- | 216,143 | 402,384 | -- |
| Birch | 54,888 | -- | 577,204 | -- | 2,371 | 24,617 | -- |
| Sweetgum | 1,218,716 | 110,315 | 973,885 | -- | 457,616 | 348,776 | -- |
| Tupelo | 219,916 | 89,822 | 346,348 | -- | 756,907 | 309,914 | -- |
| Black cherry | 23,076 | 79,723 | 1,159,717 | 6,158 | 1,985,131 | 2,174,503 | 39,050 |
| Black walnut | 35,453 | 8,537 | 1,778,479 | -- | 1,582,665 | 2,850,487 | -- |
| Butternut | -- | -- | 45,885 | -- | 159,426 | 7,314 | -- |
| Yellow-poplar | 197,348 | -- | 1,703,767 | 5,342 | 4,514,556 | 8,909,059 | 1,081 |
| Persimmon | 35,040 | -- | 135,546 | -- | 234,993 | 55,191 | -- |
| Sassafras | 133,984 | 43,038 | 1,108,347 | 4,441 | 1,906,083 | 1,340,953 | -- |
| Other hardwoods | 101,728 | 10,551 | 3,884,441 | 30,392 | 2,279,344 | 1,483,760 | 225,837 |
| Noncommercial spp. | 37,046 | 3,829 | 1,127,593 | 1,707 | 1,382,344 | 698,534 | 267,295 |
| Total | 3,925,132 | 2,541,763 | 56,165,966 | 1,287,294 | 78,236,575 | 47,125,070 | 1,163,456 |
| All species | 4,018,831 | 2,541,763 | 56,932,277 | 1,320,664 | 78,612,674 | 47,653,445 | 1,163,456 |

Table 87.--All live tree biomass in timberland by species group and tree biomass component, Indiana, 1986

(In green tons)

| Species group | All components | All live 1- to 5-inch trees | Biomass component: Growing-stock trees: Stumps | Growing-stock trees: Boles | Growing-stock trees: Tops and limbs | Cull trees: Stumps | Cull trees: Boles | Cull trees: Tops and limbs |
|---|---|---|---|---|---|---|---|---|
| Softwoods | | | | | | | | |
| Jack pine | 227,313 | 16,095 | 12,659 | 166,640 | 19,846 | 888 | 9,934 | 1,251 |
| Red pine | 228,049 | -- | 15,593 | 183,229 | 23,025 | 529 | 4,971 | 702 |
| White pine | 1,560,109 | 282,725 | 86,038 | 1,058,365 | 123,336 | 775 | 7,859 | 1,011 |
| Shortleaf pine | 1,230,559 | 20,803 | 56,727 | 949,392 | 114,672 | 4,394 | 75,659 | 8,912 |
| Other yellow pines | 1,768,840 | 237,944 | 91,906 | 1,226,282 | 143,274 | 4,197 | 58,471 | 6,766 |
| Tamarack | 58,668 | 1,439 | 3,410 | 47,683 | 6,136 | -- | -- | -- |
| Baldcypress | 396,597 | 3,414 | 13,549 | 287,415 | 74,747 | 420 | 14,726 | 2,326 |
| Eastern redcedar | 3,433,201 | 1,146,926 | 92,815 | 1,272,642 | 397,010 | 24,076 | 393,973 | 105,759 |
| Other softwoods | 469,673 | 71,743 | 16,837 | 242,250 | 82,031 | 2,962 | 40,634 | 13,216 |
| Total | 9,373,009 | 1,781,089 | 389,534 | 5,433,898 | 984,077 | 38,241 | 606,227 | 139,943 |
| Hardwoods | | | | | | | | |
| Select white oak | 37,573,334 | 659,349 | 1,711,623 | 24,007,314 | 6,624,399 | 242,895 | 3,470,659 | 857,095 |
| Other white oak | 6,631,031 | 87,948 | 336,134 | 4,420,686 | 1,273,562 | 29,334 | 376,795 | 106,572 |
| Select red oak | 17,158,051 | 227,813 | 733,837 | 11,200,867 | 2,970,788 | 96,770 | 1,563,368 | 364,608 |
| Other red oak | 30,366,402 | 599,452 | 1,325,100 | 19,252,866 | 5,292,458 | 192,755 | 2,962,793 | 740,978 |
| Select hickory | 16,314,212 | 735,952 | 711,765 | 10,239,058 | 3,142,701 | 68,383 | 1,108,641 | 307,712 |
| Other hickory | 16,705,280 | 751,759 | 723,782 | 10,369,469 | 3,201,602 | 76,742 | 1,232,569 | 349,357 |
| Basswood | 3,423,210 | 339,856 | 126,298 | 1,712,148 | 499,181 | 41,518 | 555,315 | 148,894 |
| Beech | 13,336,226 | 478,576 | 368,441 | 4,817,754 | 1,334,657 | 336,460 | 4,859,011 | 1,141,327 |
| Hard maple | 34,045,942 | 3,757,758 | 1,236,793 | 16,616,065 | 5,205,299 | 357,697 | 5,402,825 | 1,469,505 |
| Soft maple | 16,820,474 | 1,308,040 | 520,295 | 7,860,317 | 2,371,207 | 223,263 | 3,562,483 | 974,869 |
| Elm | 14,359,453 | 3,758,342 | 575,609 | 5,654,842 | 1,953,672 | 164,502 | 1,693,455 | 559,031 |
| Ash | 20,693,753 | 1,518,343 | 862,666 | 11,108,156 | 3,419,115 | 204,858 | 2,781,789 | 798,826 |
| Sycamore | 11,262,692 | 142,020 | 403,728 | 7,168,640 | 1,953,565 | 66,548 | 1,225,535 | 302,656 |
| Cottonwood | 6,091,407 | 84,880 | 288,381 | 3,981,908 | 1,014,215 | 40,425 | 551,987 | 129,611 |
| Willow | 1,375,575 | 127,337 | 33,280 | 389,891 | 118,571 | 43,596 | 520,521 | 142,379 |
| Hackberry | 3,379,454 | 453,247 | 155,661 | 1,615,412 | 501,323 | 44,548 | 471,389 | 137,874 |
| Aspen | 1,421,627 | 104,995 | 51,264 | 963,927 | 227,856 | 3,384 | 55,785 | 14,416 |
| Birch | 767,662 | 126,206 | 30,829 | 413,127 | 136,137 | 3,281 | 44,958 | 13,124 |
| Sweetgum | 3,662,670 | 323,914 | 172,070 | 2,231,820 | 675,802 | 14,057 | 189,857 | 55,150 |
| Tupelo | 3,030,861 | 417,119 | 123,111 | 1,601,750 | 486,088 | 23,045 | 292,850 | 86,898 |
| Black cherry | 7,378,323 | 1,052,705 | 201,231 | 2,866,484 | 899,375 | 119,606 | 1,714,507 | 524,415 |
| Black walnut | 7,813,803 | 330,602 | 313,866 | 4,076,009 | 1,268,458 | 102,157 | 1,329,898 | 392,813 |
| Butternut | 217,724 | 1,629 | 7,868 | 106,551 | 32,254 | 3,774 | 50,510 | 15,138 |
| Yellow-poplar | 20,117,950 | 741,504 | 916,131 | 13,547,203 | 3,778,868 | 54,708 | 865,177 | 214,359 |
| Persimmon | 822,557 | 234,288 | 36,692 | 328,325 | 123,749 | 7,070 | 67,828 | 24,605 |
| Sassafras | 7,768,847 | 2,219,446 | 259,229 | 2,681,865 | 951,072 | 103,743 | 1,170,887 | 382,605 |
| Other hardwoods | 10,694,649 | 3,880,471 | 181,686 | 1,970,950 | 660,593 | 247,002 | 2,850,743 | 903,204 |
| Noncommercial spp. | 4,984,080 | 2,892,354 | -- | -- | -- | 151,751 | 1,421,609 | 518,366 |
| Total | 318,217,249 | 27,355,905 | 12,407,370 | 171,203,404 | 50,116,567 | 3,063,872 | 42,393,744 | 11,676,387 |
| All species | 327,590,258 | 29,136,994 | 12,796,904 | 176,637,302 | 51,100,644 | 3,102,113 | 42,999,971 | 11,816,330 |

Table 88.--All live tree biomass on timberland by species group and tree biomass component, Indiana, 1986

(In thousand cubic feet)

| Species group | All components | Biomass component | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | All live 1- to 5-inch trees | Growing-stock trees | | | Cull trees | | |
| | | | Stumps | Boles | Tops and limbs | Stumps | Boles | Tops and limbs |
| Softwoods | | | | | | | | |
| Jack pine | 9,889 | 702 | 554 | 7,247 | 861 | 38 | 432 | 55 |
| Red pine | 9,864 | -- | 679 | 7,923 | 993 | 23 | 215 | 31 |
| White pine | 69,167 | 12,653 | 3,809 | 46,826 | 5,452 | 34 | 348 | 45 |
| Shortleaf pine | 44,242 | 763 | 2,040 | 34,118 | 4,123 | 157 | 2,720 | 321 |
| Other yellow pines | 78,627 | 10,578 | 4,094 | 54,503 | 6,366 | 187 | 2,598 | 301 |
| Tamarack | 2,233 | 57 | 130 | 1,813 | 233 | -- | -- | -- |
| Baldcypress | 13,973 | 120 | 478 | 10,128 | 2,631 | 15 | 519 | 82 |
| Eastern redcedar | 161,076 | 53,933 | 4,351 | 59,629 | 18,613 | 1,134 | 18,461 | 4,955 |
| Other softwoods | 21,443 | 3,275 | 764 | 11,059 | 3,750 | 137 | 1,855 | 603 |
| Total | 410,514 | 82,081 | 16,899 | 233,246 | 43,022 | 1,725 | 27,148 | 6,393 |
| Hardwoods | | | | | | | | |
| Select white oak | 1,293,756 | 22,710 | 58,971 | 826,628 | 228,077 | 8,368 | 119,490 | 29,512 |
| Other white oak | 228,337 | 3,028 | 11,581 | 152,228 | 43,847 | 1,008 | 12,974 | 3,671 |
| Select red oak | 533,260 | 7,082 | 22,811 | 348,109 | 92,334 | 2,998 | 48,589 | 11,337 |
| Other red oak | 942,554 | 18,643 | 41,118 | 597,599 | 164,256 | 5,981 | 91,956 | 23,001 |
| Select hickory | 514,483 | 23,259 | 22,447 | 322,866 | 99,100 | 2,151 | 34,957 | 9,703 |
| Other hickory | 566,294 | 25,491 | 24,529 | 351,514 | 108,531 | 2,602 | 41,781 | 11,846 |
| Basswood | 162,421 | 16,319 | 5,982 | 81,135 | 23,649 | 1,968 | 26,314 | 7,054 |
| Beech | 451,602 | 16,209 | 12,495 | 163,126 | 45,193 | 11,403 | 164,532 | 38,644 |
| Hard maple | 1,084,652 | 119,846 | 39,420 | 529,285 | 165,794 | 11,398 | 172,098 | 46,811 |
| Soft maple | 608,015 | 47,206 | 18,818 | 284,162 | 85,721 | 8,078 | 128,780 | 35,250 |
| Elm | 527,535 | 142,416 | 20,928 | 205,429 | 70,961 | 5,974 | 61,516 | 20,311 |
| Ash | 809,695 | 60,873 | 33,686 | 433,773 | 133,525 | 8,012 | 108,634 | 31,192 |
| Sycamore | 389,361 | 4,921 | 13,933 | 247,825 | 67,548 | 2,299 | 42,370 | 10,465 |
| Cottonwood | 238,089 | 3,325 | 11,289 | 155,616 | 39,636 | 1,585 | 21,574 | 5,064 |
| Willow | 57,609 | 5,372 | 1,395 | 16,315 | 4,961 | 1,826 | 21,784 | 5,956 |
| Hackberry | 129,661 | 17,393 | 5,981 | 61,968 | 19,237 | 1,708 | 18,084 | 5,290 |
| Aspen | 56,711 | 4,236 | 2,043 | 38,415 | 9,082 | 135 | 2,226 | 574 |
| Birch | 28,011 | 4,621 | 1,129 | 15,086 | 4,969 | 119 | 1,616 | 471 |
| Sweetgum | 121,827 | 10,767 | 5,733 | 74,235 | 22,475 | 470 | 6,313 | 1,834 |
| Tupelo | 104,498 | 14,371 | 4,243 | 55,232 | 16,762 | 800 | 10,095 | 2,995 |
| Black cherry | 299,951 | 42,723 | 8,185 | 116,561 | 36,573 | 4,864 | 69,723 | 21,322 |
| Black walnut | 292,133 | 12,957 | 11,713 | 152,069 | 47,315 | 3,808 | 49,616 | 14,655 |
| Butternut | 9,723 | 73 | 353 | 4,757 | 1,441 | 168 | 2,256 | 675 |
| Yellow-poplar | 771,842 | 28,458 | 35,158 | 519,741 | 144,968 | 2,089 | 33,201 | 8,227 |
| Persimmon | 35,658 | 10,158 | 1,595 | 14,234 | 5,358 | 305 | 2,941 | 1,067 |
| Sassafras | 336,779 | 96,179 | 11,238 | 116,275 | 41,237 | 4,510 | 50,755 | 16,585 |
| Other hardwoods | 463,656 | 168,216 | 7,884 | 85,457 | 28,641 | 10,710 | 123,597 | 39,151 |
| Noncommercial spp. | 199,403 | 115,731 | -- | -- | -- | 6,076 | 56,866 | 20,730 |
| Total | 11,257,516 | 1,042,583 | 434,658 | 5,969,640 | 1,751,191 | 111,413 | 1,524,638 | 423,393 |
| All species | 11,668,030 | 1,124,664 | 451,557 | 6,202,886 | 1,794,213 | 113,138 | 1,551,786 | 429,786 |

Table 89.--All live shrub[1/] biomass yields on timberland by shrub species group and forest type, Indiana, 1986

(In pounds per acre green weight)

| Shrub species group | Forest type | | | | | | |
|---|---|---|---|---|---|---|---|
| | Pine | Oak-pine | Oak-hickory | Oak-gum | Elm-ash-soft maple | Maple-beech | Cherry-ash-yellow poplar |
| Tall shrubs | | | | | | | |
| White pine | 171 | -- | -- | -- | -- | -- | -- |
| Virginia pine | -- | -- | 8 | -- | -- | -- | -- |
| Eastern redcedar | -- | 165 | 8 | 114 | 18 | 15 | 21 |
| Select white oak | -- | 6 | 31 | -- | 24 | 12 | 44 |
| Other white oak | -- | -- | 1 | -- | -- | -- | -- |
| Select red oak | 113 | 5 | 17 | 5 | 1 | 4 | -- |
| Other red oak | 77 | 29 | 20 | 295 | 15 | 4 | 6 |
| Select hickory | -- | - | 32 | 7 | 18 | 1 | 17 |
| Other hickory | 34 | 8 | 9 | 11 | 22 | 39 | 26 |
| Basswood | -- | 1 | 7 | -- | -- | 56 | -- |
| Beech | 116 | 84 | 92 | 14 | 3 | 87 | 41 |
| Hard maple | 170 | 37 | 255 | 11 | 66 | 411 | 181 |
| Soft maple | 43 | 132 | 56 | 1,089 | 47 | 9 | 3 |
| Elm | 145 | 11 | 225 | 10 | 112 | 178 | 165 |
| Black ash | -- | -- | 4 | -- | -- | 23 | 3 |
| White & green ash | 197 | 90 | 178 | 156 | 91 | 90 | 391 |
| Sycamore | -- | 4 | -- | -- | -- | 18 | -- |
| Willow | -- | -- | -- | -- | 25 | 1 | -- |
| Hackberry | 34 | 3 | 44 | -- | 22 | 9 | 43 |
| Sweetgum | -- | 1 | -- | 248 | 26 | -- | -- |
| Tupelo | 64 | -- | 48 | 44 | 6 | 6 | 24 |
| Black cherry | 585 | 33 | 80 | 151 | 29 | 103 | 41 |
| Black walnut | -- | -- | 7 | -- | 18 | 1 | 1 |
| Yellow-poplar | 232 | 3 | 5 | 66 | 15 | 6 | 9 |
| Other hardwoods | 583 | 528 | 267 | 482 | 340 | 307 | 544 |
| American hornbeam | 3 | -- | 78 | -- | 2 | 119 | 84 |
| Eastern redbud | -- | 58 | 37 | -- | 34 | 36 | 30 |
| Osage-orange | -- | -- | 10 | -- | 3 | -- | -- |
| Apple | -- | 1 | 25 | -- | 1 | 6 | -- |
| Eastern hophornbeam | 1 | 2 | 102 | -- | 13 | 65 | 25 |
| Chokecherry | 6 | -- | 4 | -- | 8 | 12 | 2 |
| Dogwood | 1 | 21 | 52 | 13 | 154 | 13 | 70 |
| Pawpaw | -- | 7 | 33 | 841 | 9 | 110 | 49 |
| Witch hazel | -- | -- | 1 | -- | 357 | -- | 29 |
| Juneberry | -- | -- | 11 | -- | -- | -- | 43 |
| Hazel | -- | -- | 1 | -- | 3 | 9 | 19 |
| Prickly ash | -- | -- | 14 | -- | 23 | 93 | 1,456 |
| Alder buckthorn | -- | -- | 2 | -- | -- | 1 | -- |
| Viburnum | -- | -- | 9 | -- | 6 | 2 | 3 |
| Elder | -- | -- | 1 | -- | 2 | 76 | 2 |
| Sumac | -- | 386 | 43 | 1,204 | 61 | 7 | 148 |
| Shrubby willows | -- | -- | -- | -- | 33 | -- | 379 |
| Misc. tall shrubs | 1 | 1 | 214 | 112 | 743 | 77 | 68 |
| Total tall shrubs | 2,576 | 1,616 | 2,031 | 4,873 | 2,350 | 2,006 | 3,967 |
| Low shrubs | | | | | | | |
| Virginia creeper | 243 | 38 | 134 | 23 | 91 | 91 | 43 |
| Gooseberry-current | 4 | 4 | 4 | -- | 8 | 13 | 9 |
| Raspberry-blackberry | 58 | 5 | 75 | 634 | 82 | 44 | 145 |
| Rose | 4 | 7 | 7 | 6 | 27 | 12 | 12 |
| Bilberry-blueberry | -- | 3 | 10 | -- | -- | -- | 3 |
| Honeysuckle | 132 | 140 | 16 | 89 | 24 | 36 | 86 |
| Snowberry | -- | -- | -- | 9 | -- | -- | -- |
| Poison ivy | 164 | 82 | 148 | 169 | 115 | 54 | 109 |
| Greenbriar | 25 | 11 | 54 | 11 | 19 | 8 | 22 |
| Grape | 4 | 6 | 12 | 6 | 7 | 9 | 18 |
| Misc. low shrubs | 9 | 5 | 23 | 2 | 38 | 11 | 47 |
| Total low shrubs | 643 | 301 | 483 | 949 | 411 | 278 | 494 |
| All shrub species | 3,219 | 1,917 | 2,514 | 5,822 | 2,761 | 2,284 | 4,461 |
| Number of plots[2/] | 14 | 15 | 148 | 7 | 96 | 130 | 85 |

[1/] Trees under 1.0 inch d.b.h. are also included.

[2/] Number of plots by forest type from which average yields were derived.

Table 90.--Sampling errors for Forest Survey Unit and county totals of volume, net annual growth, average annual removals, and area of timberland

(In percent)

| Unit and county | Area | Growing stock | | | Sawtimber | | |
|---|---|---|---|---|---|---|---|
| | | Volume | Growth | Removals[2/] | Volume | Growth | Removals |
| Lower Wabash Unit | | | | | | | |
| Clay | 11.11 | 15.76 | 21.69 | 55.98 | 18.42 | 12.59 | 57.45 |
| Daviess | 11.46 | 16.21 | 22.69 | 54.71 | 18.94 | 14.10 | 55.87 |
| Gibson | 11.41 | 16.60 | 22.52 | 50.38 | 19.66 | 14.34 | 51.42 |
| Greene | 7.20 | 10.38 | 13.99 | 41.57 | 12.29 | 8.93 | 42.77 |
| Knox | 13.32 | 19.81 | 27.71 | 57.93 | 23.30 | 15.90 | 59.76 |
| Martin | 6.52 | 8.60 | 12.85 | 31.34 | 9.83 | 7.40 | 31.42 |
| Parke | 7.90 | 10.88 | 14.72 | 37.13 | 12.85 | 9.37 | 37.99 |
| Pike | 8.07 | 11.29 | 15.39 | 44.35 | 13.33 | 9.84 | 45.38 |
| Posey | 11.01 | 14.91 | 21.30 | 40.47 | 17.26 | 12.58 | 41.16 |
| Putnam | 8.45 | 11.69 | 16.75 | 38.04 | 13.52 | 8.96 | 38.26 |
| Sullivan | 9.19 | 12.87 | 17.66 | 46.68 | 15.13 | 11.21 | 47.84 |
| Vanderburgh | 14.87 | 21.47 | 29.17 | 72.12 | 25.36 | 17.48 | 77.48 |
| Vermillion | 12.55 | 18.01 | 25.02 | 67.11 | 21.14 | 15.20 | 68.94 |
| Vigo | 10.37 | 15.15 | 20.66 | 56.46 | 17.96 | 13.07 | 58.71 |
| Total | 2.52 | 3.53 | 4.92 | 12.28 | 4.13 | 2.98 | 12.54 |
| Knobs Unit | | | | | | | |
| Brown | 3.02 | 6.85 | 11.65 | 23.60 | 8.35 | 19.72 | 25.25 |
| Clark | 3.76 | 8.91 | 14.77 | 36.58 | 10.88 | 25.57 | 38.87 |
| Crawford | 3.17 | 7.54 | 12.56 | 26.30 | 9.25 | 21.65 | 29.18 |
| Dubois | 3.59 | 8.49 | 14.26 | 34.83 | 10.29 | 24.18 | 36.53 |
| Floyd | 5.90 | 13.73 | 23.10 | 46.32 | 16.64 | 36.57 | 48.56 |
| Harrison | 3.01 | 7.13 | 11.64 | 30.75 | 8.81 | 20.99 | 32.93 |
| Jackson | 3.15 | 7.49 | 12.13 | 29.32 | 9.31 | 22.07 | 32.07 |
| Lawrence | 3.09 | 7.03 | 12.03 | 26.75 | 8.51 | 20.09 | 29.03 |
| Monroe | 3.20 | 7.36 | 12.30 | 19.94 | 8.98 | 21.47 | 21.98 |
| Morgan | 3.72 | 9.04 | 14.76 | 36.23 | 11.14 | 26.64 | 39.30 |
| Orange | 3.05 | 7.11 | 11.90 | 28.43 | 8.76 | 20.45 | 31.46 |
| Owen | 3.34 | 7.98 | 13.24 | 32.59 | 9.71 | 21.69 | 34.22 |
| Perry | 2.80 | 6.47 | 10.95 | 23.70 | 8.00 | 18.46 | 26.28 |
| Scott | 5.28 | 12.67 | 20.69 | 50.61 | 15.57 | 37.26 | 53.45 |
| Spencer | 4.38 | 10.67 | 17.40 | 42.81 | 13.08 | 31.55 | 45.81 |
| Warrick | 3.84 | 9.66 | 15.07 | 40.38 | 12.09 | 28.82 | 43.42 |
| Washington | 3.17 | 7.48 | 12.44 | 30.35 | 9.09 | 19.83 | 32.04 |
| Total | 0.83 | 1.95 | 3.24 | 7.26 | 2.39 | 5.58 | 7.87 |
| Upland Flats Unit | | | | | | | |
| Dearborn | 8.86 | 13.38 | 18.54 | 55.22 | 16.95 | 28.63 | 54.87 |
| Fayette | 14.62 | 24.73 | 32.24 | * [1/] | 32.61 | 51.41 | * |
| Franklin | 9.43 | 15.86 | 20.44 | 69.80 | 20.80 | 32.71 | 71.39 |
| Jefferson | 9.56 | 13.47 | 19.66 | 52.28 | 16.83 | 26.89 | 52.41 |
| Jennings | 9.04 | 13.68 | 18.85 | 54.85 | 17.32 | 28.96 | 54.95 |
| Ohio | 16.02 | 24.76 | 33.84 | * | 31.54 | 52.83 | * |
| Ripley | 9.72 | 14.27 | 20.45 | 53.03 | 17.83 | 28.43 | 53.82 |
| Switzerland | 9.76 | 13.10 | 19.81 | 47.80 | 15.92 | 27.36 | 47.20 |
| Union | 18.29 | 31.26 | 41.02 | * | 41.02 | 65.45 | * |
| Total | 3.54 | 5.32 | 7.45 | 21.06 | 6.71 | 11.01 | 21.13 |

(Table 90 continued on next page)

[1/] * indicates a sampling error over 99.00 percent.

[2/] Error figures are for average annual removals.

(Table 90 continued)

| Unit and county | Area | Growing stock | | | Sawtimber | | |
|---|---|---|---|---|---|---|---|
| | | Volume | Growth | Removals[2] | Volume | Growth | Removals |
| Northern Unit | | | | | | | |
| Adams | 21.78 | 33.52 | 88.35 | 97.99 | 37.45 | * | * |
| Allen | 14.98 | 26.15 | 57.03 | 64.17 | 29.89 | 93.49 | 66.06 |
| Bartholomew | 12.22 | 18.57 | 53.20 | 53.96 | 20.59 | 80.92 | 54.59 |
| Benton | 66.77 | 97.55 | * | * | * | * | * |
| Blackford | 26.67 | 39.18 | * | * | 43.07 | * | * |
| Boone | 20.97 | 32.55 | 84.96 | 85.78 | 36.04 | * | 87.23 |
| Carroll | 19.06 | 29.60 | 75.87 | 83.35 | 33.03 | * | 84.91 |
| Cass | 16.62 | 26.55 | 68.63 | 87.75 | 30.20 | * | 91.19 |
| Clinton | 26.96 | 40.31 | * | * | 44.26 | * | * |
| Decatur | 16.66 | 24.55 | 71.15 | 67.00 | 27.04 | * | 67.94 |
| De Kalb | 15.65 | 25.07 | 64.78 | 88.02 | 28.67 | * | 91.80 |
| Delaware | 20.57 | 33.41 | 80.82 | 94.08 | 38.00 | * | 98.27 |
| Elkhart | 15.16 | 24.66 | 56.11 | 71.24 | 27.96 | 93.44 | 72.97 |
| Fountain | 13.52 | 21.08 | 56.43 | 71.98 | 23.89 | 84.76 | 74.10 |
| Fulton | 18.11 | 28.73 | 76.03 | 90.00 | 32.47 | * | 92.55 |
| Grant | 19.17 | 28.43 | 78.90 | 79.05 | 31.63 | * | 81.07 |
| Hamilton | 18.29 | 29.25 | 67.22 | 87.21 | 33.34 | * | 90.54 |
| Hancock | 23.81 | 37.99 | 95.59 | * | 43.44 | * | * |
| Hendricks | 19.44 | 30.99 | 83.79 | 87.75 | 34.54 | * | 89.52 |
| Henry | 18.02 | 28.54 | 74.28 | 83.82 | 32.13 | * | 86.54 |
| Howard | 27.88 | 47.91 | * | * | 54.14 | * | * |
| Huntington | 17.09 | 28.19 | 71.11 | 88.43 | 32.19 | * | 92.00 |
| Jasper | 15.74 | 25.45 | 61.10 | 73.21 | 28.73 | 99.00 | 75.01 |
| Jay | 16.69 | 24.47 | 75.50 | 69.90 | 26.86 | * | 70.46 |
| Johnson | 18.24 | 27.59 | 80.06 | 78.46 | 30.41 | * | 79.34 |
| Kosciusko | 14.24 | 20.97 | 63.66 | 59.82 | 23.07 | 96.49 | 60.40 |
| La Grange | 13.65 | 23.00 | 58.10 | 76.41 | 26.30 | 88.49 | 79.60 |
| Lake | 19.38 | 30.09 | 78.14 | 76.14 | 33.95 | * | 80.07 |
| La Porte | 12.71 | 20.43 | 48.50 | 57.89 | 23.04 | 79.20 | 59.22 |
| Madison | 22.68 | 34.06 | 97.00 | 89.00 | 37.80 | * | 91.83 |
| Marion | * | * | * | 72.98 | * | * | * |
| Marshall | 14.69 | 23.67 | 64.29 | 75.52 | 26.67 | 98.85 | 77.16 |
| Miami | 16.23 | 23.82 | 70.00 | 70.04 | 26.34 | * | 70.94 |
| Montgomery | 16.69 | 26.65 | 63.63 | 81.44 | 30.51 | 97.74 | 85.08 |
| Newton | 19.33 | 28.53 | 78.14 | 88.30 | 32.03 | * | 91.16 |
| Noble | 14.39 | 23.45 | 57.58 | 71.98 | 26.73 | 88.83 | 74.37 |
| Porter | 14.78 | 24.14 | 56.83 | 72.28 | 27.66 | 87.19 | 76.08 |
| Pulaski | 15.74 | 25.00 | 62.24 | 77.98 | 28.32 | 97.83 | 79.98 |
| Randolph | 18.42 | 27.05 | 78.78 | 71.17 | 29.72 | * | 72.42 |
| Rush | 23.22 | 40.67 | 90.34 | * | 46.38 | * | * |
| St. Joseph | 17.24 | 28.34 | 64.29 | 76.68 | 32.35 | * | 79.87 |
| Shelby | 23.13 | 34.10 | * | 99.34 | 37.72 | * | * |
| Starke | 15.77 | 24.76 | 62.53 | 75.96 | 27.85 | 98.62 | 77.28 |
| Steuben | 14.57 | 23.96 | 58.00 | 74.42 | 27.37 | 89.87 | 76.84 |
| Tippecanoe | 17.20 | 27.92 | 66.57 | 86.03 | 32.05 | * | 90.38 |
| Tipton | 37.72 | 66.21 | * | * | 75.43 | * | * |
| Wabash | 16.69 | 27.28 | 65.69 | 85.15 | 31.20 | * | 89.39 |
| Warren | 16.76 | 26.11 | 68.91 | 77.41 | 29.20 | * | 78.65 |
| Wayne | 14.48 | 23.35 | 61.74 | 72.36 | 26.45 | 93.45 | 74.49 |
| Wells | 20.32 | 32.12 | 79.20 | 96.87 | 36.61 | * | * |
| White | 22.68 | 38.52 | 89.81 | * | 44.42 | * | * |
| Whitley | 18.06 | 29.26 | 76.57 | 98.56 | 33.29 | * | * |
| Total | 2.44 | 3.88 | 9.96 | 11.23 | 4.37 | 15.47 | 11.56 |
| All counties | 1.00 | 1.57 | 3.42 | 5.40 | 1.86 | 5.47 | 5.68 |

[1] * indicates a sampling error over 99.00 percent.

[2] Error figures are for average annual removals.

U.S. GOVERNMENT PRINTING OFFICE: 1989-656-826/80188

Table 91.--Net volume of sawtimber (Doyle rule) on timberland by species group and diameter class, Indiana, 1986

(In thousand board feet)[1/]

| Species group | All classes | Diameter class (inches at breast height) 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-22.9 | 23.0-28.9 | 29.0-38.9 | 39.0+ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Softwoods | | | | | | | | | | | |
| Jack pine | 8,948 | 2,695 | 3,223 | 424 | 1,196 | 680 | 730 | -- | -- | -- | -- |
| Red pine | 4,346 | 3,913 | 433 | -- | -- | -- | -- | -- | -- | -- | -- |
| White pine | 75,101 | 20,132 | 16,538 | 25,262 | 11,157 | 2,012 | -- | -- | -- | -- | -- |
| Shortleaf pine | 37,657 | 17,984 | 10,197 | 8,154 | 1,322 | -- | -- | -- | -- | -- | -- |
| Other yellow pines | 93,886 | 20,329 | 24,331 | 31,492 | 11,492 | 852 | 2,311 | 989 | 2,090 | -- | -- |
| Tamarack | 1,947 | 843 | -- | 1,104 | -- | -- | -- | -- | -- | -- | -- |
| Baldcypress | 22,901 | 4,403 | 3,001 | 6,795 | 3,877 | 4,825 | -- | -- | -- | -- | -- |
| Eastern redcedar | 56,414 | 16,052 | 13,311 | 14,507 | 7,847 | 3,384 | -- | -- | 1,313 | -- | -- |
| Other softwoods | 1,675 | 1,675 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 302,875 | 88,026 | 71,034 | 87,738 | 36,891 | 11,753 | 3,041 | 989 | 3,403 | -- | -- |
| Hardwoods | | | | | | | | | | | |
| Select white oak | 1,910,837 | -- | 148,458 | 225,250 | 301,076 | 313,915 | 285,109 | 222,723 | 288,417 | 114,505 | 11,384 |
| Other white oak | 316,099 | -- | 39,216 | 63,295 | 80,822 | 64,409 | 36,280 | 18,592 | 13,485 | -- | -- |
| Select red oak | 919,975 | -- | 45,276 | 104,331 | 109,529 | 137,859 | 132,173 | 106,699 | 174,464 | 102,793 | 6,851 |
| Other red oak | 1,438,444 | -- | 109,710 | 162,550 | 241,940 | 235,570 | 213,747 | 144,564 | 252,297 | 72,928 | 5,138 |
| Select hickory | 543,071 | -- | 91,446 | 128,391 | 122,166 | 88,997 | 54,216 | 28,647 | 25,599 | 3,609 | -- |
| Other hickory | 578,837 | -- | 116,142 | 124,282 | 112,484 | 89,054 | 59,618 | 34,856 | 37,047 | 5,354 | -- |
| Basswood | 163,379 | -- | 13,506 | 23,741 | 28,635 | 31,702 | 17,349 | 22,166 | 22,013 | 4,267 | -- |
| Beech | 416,468 | -- | 31,096 | 37,227 | 53,155 | 58,600 | 67,891 | 58,719 | 88,462 | 21,318 | -- |
| Hard maple | 858,959 | -- | 133,131 | 152,653 | 161,045 | 117,039 | 103,495 | 87,947 | 72,576 | 28,911 | 2,162 |
| Soft maple | 529,520 | -- | 58,017 | 75,584 | 78,981 | 73,846 | 57,860 | 40,957 | 88,511 | 47,379 | 8,385 |
| Elm | 183,835 | -- | 46,295 | 44,317 | 38,865 | 18,764 | 13,090 | 5,596 | 12,978 | 3,930 | -- |
| Ash | 713,641 | -- | 105,992 | 134,325 | 136,842 | 108,227 | 75,999 | 50,487 | 75,381 | 25,439 | 949 |
| Sycamore | 640,939 | -- | 47,146 | 63,887 | 74,682 | 80,669 | 89,255 | 70,120 | 132,724 | 74,436 | 8,020 |
| Cottonwood | 434,569 | -- | 18,379 | 40,600 | 39,623 | 57,524 | 34,019 | 33,443 | 116,865 | 75,012 | 19,104 |
| Willow | 28,672 | -- | 1,759 | 5,251 | 6,229 | 1,863 | 10,409 | 2,028 | 1,133 | -- | -- |
| Hackberry | 102,036 | -- | 18,423 | 17,312 | 16,872 | 17,861 | 13,052 | 9,920 | 8,596 | -- | -- |
| Aspen | 61,065 | -- | 11,749 | 17,086 | 20,293 | 6,963 | 1,811 | 1,552 | 958 | -- | 653 |
| Birch | 18,411 | -- | 875 | 6,421 | 6,596 | 2,510 | 679 | -- | 1,330 | -- | -- |
| Sweetgum | 130,715 | -- | 25,971 | 28,302 | 20,955 | 16,066 | 15,207 | 8,495 | 6,567 | 7,845 | 1,307 |
| Tupelo | 96,314 | -- | 14,093 | 17,212 | 11,782 | 16,075 | 13,010 | 7,735 | 14,694 | 1,713 | -- |
| Black cherry | 187,102 | -- | 35,509 | 31,336 | 40,618 | 23,684 | 29,385 | 17,153 | 9,417 | -- | -- |
| Black walnut | 240,804 | -- | 48,550 | 53,146 | 66,632 | 35,671 | 22,084 | 6,199 | 7,311 | 1,211 | -- |
| Butternut | 8,465 | -- | 2,117 | 737 | 4,102 | 732 | 777 | -- | -- | -- | -- |
| Yellow-poplar | 1,205,171 | -- | 85,959 | 154,516 | 200,229 | 234,522 | 179,234 | 134,084 | 190,414 | 26,213 | -- |
| Persimmon | 4,754 | -- | 2,746 | 1,463 | -- | 545 | -- | -- | -- | -- | -- |
| Sassafras | 87,682 | -- | 24,733 | 20,555 | 20,530 | 14,327 | 2,211 | 2,187 | 3,139 | -- | -- |
| Other hardwoods | 97,113 | -- | 18,974 | 26,304 | 16,447 | 12,269 | 3,115 | 9,083 | 9,801 | 1,120 | -- |
| Total | 11,916,877 | -- | 1,295,268 | 1,760,074 | 2,011,130 | 1,859,263 | 1,531,075 | 1,123,952 | 1,654,179 | 617,983 | 63,953 |
| All species | 12,219,752 | 88,026 | 1,366,302 | 1,847,812 | 2,048,021 | 1,871,016 | 1,534,116 | 1,124,941 | 1,657,582 | 617,983 | 63,953 |

[1/] Doyle rule.

Smith, W. Brad; Golitz, Mark F.
1988. Indiana forest statistics, 1986. Resour. Bull. NC-108. St. Paul, MN: U.S. Department of Agriculture, Forest Service, North Central Forest Experiment Station. 139 p.

The third inventory of Indiana's timber resource shows that timberland area in Indiana climbed from 3.9 to 4.3 million acres between 1967 and 1986, an increase of more than 10 percent. During the same period growing-stock volume increased 43 percent. Highlights and statistics are presented on area, volume, growth, mortality, and removals.

KEY WORDS: Area, volume, growth, mortality, removals.

Our job at the North Central Forest Experiment Station is discovering and creating new knowledge and technology in the field of natural resources and conveying this information to the people who can use it. As a new generation of forests emerges in our region, managers are confronted with two unique challenges: (1) Dealing with the great diversity in composition, quality, and ownership of the forests, and (2) Reconciling the conflicting demands of the people who use them. Helping the forest manager meet these challenges while protecting the environment is what research at North Central is all about.